OPEN POSITIONS IN CORPOICA

Colombian Corporation for Agricultural Research

50 Ph.D. PERMANENT POSITIONS

2015
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ABOUT CORPOICA

The Colombian Corporation for Agricultural Research (CORPOICA, from its name in Spanish) is a joint public-private, decentralized, not-for-profit institution of scientific and technical nature. The Corporation’s purpose is generating scientific knowledge and developing agricultural technologies through research, technology adaptation and transfer, and technical assistance for improving production competitiveness, equitable distribution of the benefits of technology, and sustainable use of natural resources; strengthening Colombia’s scientific and technological capacities; and contributing to improving the population’s quality of life.

Corpoica has 13 research centers located in the country’s different agricultural regions. These centers carry out research in vegetables, fruits, permanent crops, transitory crops, roots and tubers, cacao, and livestock (cattle and minor species).

Knowledge, conservation and sustainable use of biodiversity for improved livelihoods, and productivity and sustainability of agricultural and livestock systems make up one of Corpoica’s building blocks. This block is developed through the administration of Colombia’s Germplasm Bank System which includes three subsystems: animal, plants and microorganisms, in turn linked to three research lines: conservation of agricultural biodiversity, bioprospecting and search of attributes, and establishment of plant breeding strategic plans.

Another building block is research focused on generating new productive models for supporting sustainable development of the livestock sector; innovating current production systems to contribute to reducing greenhouse gas emissions; strengthening efficient use of nutrients and water; improving productivity without increasing currently cultivated area; adapting these systems to climate change and mitigating its effects; using varieties with novel agronomic attributes, especially resistance to biotic and abiotic factors; and making the most of the enormous potential of genomes of plants, animals and other organisms to improve food quality and innocuousness, thus minimizing negative effects on human health and the environment.

General information about Corpoica is found at http://www.corpoica.org.co

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Animal Genetics

1. Position Announcement No. A-2112015
   Researcher in the area of animal genetics, with emphasis on bovine and ovine species

Corpoica’s research focuses on developing competitive and sustainable livestock systems. In this context, the area of animal genetics conducts research to identify those attributes that position local breeds in the national livestock production scenario and that contribute to developing the industry of ovine and caprine livestock.

Job description

- Participate in research in animal genetics, with emphasis on quantitative genetics and molecular genetics
- Conduct in-depth animal selection programs using phenotypic information and molecular markers (SNP markers), incorporating genomic information in the response to predict genetic values.

Key responsibilities

- Participate in animal genetics research using germplasm banks for animal breeding programs in livestock production agroecosystems.
- Carry out programs for generating animal breeding populations and searching for molecular markers to detect adaptation.
- Carry out genetic mapping programs to detect QTLs that affect the animal’s productive, reproductive and health characteristics.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in animal genetics, with emphasis on quantitative genetics and/or population genetics.
- Expertise in genome-wide association studies using genomic prediction in beef and dairy livestock
- Programing and using software for GBLUP and GWAS.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2112015

• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-2132015  
Reseacher in the area of animal breeding, with emphasis in bovine and ovine species

Corpoica’s research focuses on developing competitive and sustainable livestock production systems. In this context, the aim of the animal breeding area, with emphasis on ruminants (bovine and ovine), is strengthening the genotype-environment relationship, strategically using local and introduced breeds.

Job description

Lead bovine and ovine breeding research in tropical agroecosystems using local and introduced breeds, based on phenotypic and molecular information for designing and carrying out animal breeding programs.

Key responsibilities

- Lead animal breeding programs suitable for the Caribbean region in bovine and ovine production systems.
- Carry out animal breeding programs using genomic selection for variables of interest from the zootechnics point of view.
- Conduct animal selection programs using phenotypic and molecular (high-density SNP markers) information.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in animal genetics (populations, quantitative and molecular), biostatistics, bioinformatics or biomathematics applied to animal genetics and animal breeding.
- Expertise in research with bovine and ovine species in the area of genetics and animal breeding as principal researcher, or co-investigator.
- Software programing and handling for GBLUP and GWAS.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement NoA-2132015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
3. Position Announcement No. A-2152015

**Researcher in the area of animal physiology, with emphasis on reproduction of bovine and ovine species in the tropics**

Corpoica’s research focuses on developing competitive and sustainable livestock systems. In this context, the area of reproductive physiology conducts research to regulate and/or improve fertility of bovine and ovine species in tropical conditions. Studies on the pituitary-ovarian-uterine axis are very important for understanding the mechanisms that rule the animal’s organism and its adaptation to tropical conditions, in both local and introduced breeds of bovine and ovine species, and its influence on reproduction and fertility.

**Job description**

- Responsible for linking environmental supply and physiology of bovine and ovine species in different agroecosystems.
- Conduct research on in vitro fertilization and cryopreservation of seminal material.
- Use new biotechnology methods for transferring embryos, sexing seminal material, and developing oocytes; for understanding ovarian follicle-oocyte interactions; and for analyzing tissues, ovarian biophysics and subfertility of livestock under tropical conditions.

**Key responsibilities**

- Lead research projects that take into account the effect of caloric stress on gametes, embryonary production, gestation rate, implanting, hormonal alterations and protein biomarkers.
- Participate in research activities for in vitro fertilization, including procedures to optimize follicle aspiration, maturing of gametes and production of embryos, bipartition, vitrification, cryopreservation of gametes and embryos, and sexing.
- Study and determine the interaction between environmental conditions and livestock development, in terms of performance of male and female physio-reproductive components.
- Use cellular and molecular tests to evaluate functioning of uterine microenvironment; ovarian, follicle and testicular activity; seminal plasma; development of gametes; fertility; development of embryos; implanting; and confirmation of pregnancy.
- Bring together and analyze relationships between environmental conditions, on the one hand, and reproduction physiology, and feeding and management strategies that optimize animal productivity, on the other.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in animal physiology, in areas of animal reproduction and or biotechnology applied to animal reproduction, with emphasis on bovine and ovine species.
• Expertise in in vitro fertilization procedures and cryopreservation of seminal material, as well as in using new biotech methods for transferring embryos, sexing seminal material, etc.
• Expertise in developing bovine and ovine production systems.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2152015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
Animal Health

1. **Position Announcement No. A-1882015**
   **Researcher in the area of animal health, with emphasis on veterinary epidemiology**

Corpoica focuses its research on developing competitive and sustainable livestock systems. The area of animal health conducts research to understand and develop preventive strategies that contribute to improving and innovating the quality and health of tropical livestock production systems.

Priority is given to research that leads to developing technologies to control endoparasites, identify the presence of diseases affecting reproduction, and evaluate risks of specific infectious diseases. Research is developed taking into account other production components such as nutrition, feeding and production capacity of animal resources.

**Job description**

- Develop research projects in animal health, with emphasis on population studies to identify, understand and establish interactions between the environment and animal health or incidence of diseases.
- Determine risk factors involved in animal health and estimate economic implications.
- Establish a base line for decision-making in order to prevent and control these pathologies.

**Key responsibilities**

- Lead epidemiological studies on monitoring and control of diseases affecting livestock production.
- Develop monitoring and information systems on public health issues.
- Develop health indicators, including prevalence and incidence of different agroecosystems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in animal health, with emphasis on veterinary epidemiology
- Experience developing bovine and ovine production systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1882015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.

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2. **Position Announcement No. A-1902015**

**Researcher in the area of animal health, with emphasis on veterinary parasitology**

Corpoica focuses its research on developing competitive and sustainable livestock systems. The area of animal health conducts research to understand and develop preventive strategies that contribute to improving and innovating the quality and health of tropical livestock production systems.

One of the important lines of work for bovine and ovine production is developing comprehensive strategies for controlling internal and external parasites. Priority is given to research that leads to developing technologies to control endoparasites and their vectors, and to studies on immunoparasitology and molecular parasitology.

**Job description**

- Lead research projects in the area of animal health, with emphasis on veterinary parasitology.
- Identify the relationship among environmental factors, vectors and parasites and their impact on animal health.
- Incorporate knowledge on immunoparasitology to enrich the research agenda and the technologies generated.

**Key responsibilities**

- Lead research projects in veterinary parasitology, with emphasis on bovine and ovine production in different agroecosystems in the country.
- Develop integrated control strategies of parasites having the greatest incidence in production systems.
- Develop health indicators including prevalence and incidence in different agroecosystems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in animal health, with emphasis on veterinary parasitology
- Expertise in immunoparasitology and molecular parasitology.
- Experience in developing bovine and ovine production systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1902015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
3. Position Announcement No. A-2232015

Researcher in the area of animal health, with emphasis on immunology

Corpoica focuses its research on developing competitive and sustainable livestock systems. The animal health area develops research to acquire knowledge on and develop preventive strategies that contribute to development, improvement, innovation and quality of animal health and production in the tropics.

Priority is assigned to research leading to the development of technology on endoparasites, presence of diseases affecting reproduction and methodologies to evaluate risks of specific infectious diseases—in close relationship with other production components such as nutrition, feeding and productive capacity of the livestock resource.

Job description

- Develop projects aimed at using preventive veterinary medicine as a key element in animal production, in order to prevent and control relevant pathologies.
- Conduct activities in the area of development related to veterinary immunology, including immunodiagnostics, immunopharmacology, immunonutrition, immunomodulation, etc.

Key responsibilities

- Lead animal health studies focused on using immunological tools that enable establishing sanitary protocols taking into account prevalent pathogens in targeted areas.
- Develop diagnosis and intervention strategies (vaccines, immunoprophylaxis, immunomodulators, etc.) that lead to mitigating the impact of diseases.
- Develop prevention tools and establish health protocols tailored to each species and zone of intervention.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in veterinary immunology, with emphasis on animal health.
• Knowledge of production of antibodies (Ac), hyper immune serum, vaccines, bacterins, immunoprophylaxis, and immunotherapy.
• Experience in developing bovine and ovine production systems.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2232015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
4. **Position Announcement No. A-2252015**

**Researcher in the area of animal health (large animal internal medicine) with emphasis on herd health**

Corpoica focuses its research on developing competitive and sustainable livestock systems. The animal health area develops research to gain knowledge on and develop preventive strategies that contribute to development, improvement, innovation and quality of animal health and production in the tropics.

Priority is assigned to research leading to the development of technology on endoparasites, presence of diseases affecting reproduction and methodologies to evaluate risks of specific infectious diseases—in close relationship with other production components such as nutrition, feeding and productive capacity of the livestock resource.

**Job description**

- Develop research projects in the area of animal health (large animal internal medicine), with emphasis on herd health.
- Design and interpret diagnostic tests for specific situations.

**Key responsibilities**

- Develop and implement a herd health program in Corpoica’s research centers.
- Develop research proposals based on the most relevant problems found in livestock production systems.
- Develop regional herd health models for different bovine production systems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in large animal internal medicine, with emphasis on herd health.
- Knowledge of therapeutics used in treatment and/or prophylaxis of diseases.
- Experience in developing bovine production systems.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2252015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Animal Nutrition

1. **Position Announcement No. A-2092015**
   **Researcher in the area of animal nutrition and feeding, with emphasis on small ruminants**

Corpoica’s research focuses on developing competitive and sustainable livestock systems. In this context, the objective of the Animal Nutrition area, with emphasis on bovine and ovine species, is to maximize animal growth, production and health; improve the quality of their products; and make the most of the relation between the system and the environment. Research in this area involves growth mechanisms, requirements, metabolism, forage utilization, feed composition and feeding systems in tropical conditions.

**Job description**

- Develop feeding strategies for minor ruminants, oriented at improving production and composition of beef and milk, and contributing to reducing environmental impact.
- Responsible for elaborating and executing research projects in the mentioned area, integrating other knowledge areas to generate technological management strategies that help overcome environmental limiting factors and improve productive and reproductive indexes, and provide innocuous, nutritionally high-quality products.

**Key responsibilities**

- Lead research projects for developing feeding systems for ovine and caprine species in the tropics.
- Participate in projects investigating the relationships between nutrition and immunity, in order to improve animal health status.
- Link physiological knowledge with feeding and management strategies that optimize animal productivity and its relationship with the environment.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in animal nutrition, with emphasis on small ruminants.
- Expertise in the development of bovine and ovine feeding systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2092015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
Biostatistics

1. **Position Announcement No. A-1832015**

   Researcher in the area of biostatistics, with emphasis on bioinformatics

As a research, development and innovation institution in Colombia’s agricultural sector, Corpoica, seeks to establish a system to capture, store and analyze research and baseline data collected in surveys conducted by different sectors in Corporation. The system for capturing information results in the creation of a historic reservoir of information generated by the Corporation, which can later be used to perform comprehensive analyses and develop work tools and analyses as models for predicting, simulating and optimizing productive systems, and assessing socioeconomic impact of technologies generated by the Corporation.

**Job description**

- Develop a research program to carry out mega-analysis of the Corporation’s historic data, in collaboration with researchers from the different knowledge areas, with the objective of identifying opportunities and greater understanding of tendencies observed in the data. Research must facilitate developing mathematical algorithms to optimize these processes.
- Prepare and execute research projects in the field mentioned above, in coordination with other knowledge areas in order to develop computer and data management strategies that guarantee the availability of data and facilitate problem solving and knowledge generation in response to requirements coming from researchers working to come up with solutions for the country’s different production chains.

**Key responsibilities**

- Create an information system that gathers historic data of the Corporation’s biological and socioeconomic research.
- Develop new algorithms and statistical solutions to analyze large data sets and solve complex biological problems, such as predicting a gene’s structure in a genomic sequence, predicting the structure of proteins, identifying protein families based on sequence similarity.
- Interact creatively with mathematical modelers to implement simulation models of production systems.
- Interact with researchers whose objective is developing mathematical models to facilitate access to and interpretation of biological and socioeconomic data stored in Corpoica’s information system.
- Provide advice to the biostatistics unit, which supports the Corporation’s researchers in the analysis of experimental designs.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
Serve as mentor and supervise junior researchers and students participating in corporate dynamics.

Establish effective liaison with national and international scientific communities, and with private sector agencies.

Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.

Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in biostatistics with emphasis in bioinformatics.
- Advanced use of statistics, advanced knowledge of mathematics and programming experience in developing tools that enable storage, access, use and updating different types of biological information.
- Expertise in using bioinformatics and developing tools for data capture, use, analysis and modeling.
- Expertise applying these skills in at least one area related to the fields of genetics, pharmacology, agricultural production systems, or structuring and analysis of large volumes of data.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1832015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.
Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
1. **Position Announcement No. A-1872015**
   **Researcher in the area of agrometeorology, with emphasis on evaluation of agroclimatic risks**

Evaluation of agroclimatic risks is a new area of research for Corpoica. Its purpose is to generate information and management technologies to reduce occasional risks, such as extreme climatic events (drought, flooding, freeze) and long-term risks, such as increase in temperatures and CO2; and provide adaptation guidelines to improve the resilience of production systems.

**Job description**

- Manage agricultural meteorology components for generating agroclimatic prognostics and predictions at different territorial scales.
- Integrate this information to soil conditions and water requirements of crops in order to select agroclimatic niches involving less risk.
- Evaluate territorial vulnerabilities to deficits or excesses in precipitation.
- Develop decision-making systems to support the selection of technological options to increase resilience of production systems in the face of extreme events.

**Key responsibilities**

- Analyze the behavior of climate variables and support zoning of agroclimatic risks for different production systems.
- Support the identification of agroclimatic niches, facing less risk of being exposed to extreme climatic phenomena.
- Develop decision-making systems for reducing agroclimatic risks in production systems, crop and variety planning systems, and location management systems to reduce impact of extreme climatic events.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in agroclimatology with experience in modeling and evaluation of agroclimatic risks in production systems.
- Expertise in managing specialized positioning software and geographic information systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1872015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-1842015
   Researcher in the area of agroecology

Agroecology is a new field of science and an opportunity for research and innovation, which brings together, synthetizes and applies agronomic, ecologic, sociologic, etnobotanic, ecologic economy, and other scientific knowledge, using a holistic and systemic approach, to design comprehensive management and evaluation of sustainable agroecosystems. The agroecosystem is addressed as a unit of study, based on ecologic concepts and principles for designing sustainable systems and reducing risks. Corpoica wants to strengthen this approach to develop technologies that bring together the analysis of environmental, economic, scientific and sociocultural factors.

Job description

Analyze physical, chemical, biologic, ecosystemic, economic, political, social and cultural interactions affecting agroecosystems in order to include relevant modifications to achieve sustainability and competitiveness.

Key responsibilities

- Describe and compare structure and function of different types of agroecosystems, from both the ecologic and cultural point of view.
- Map these agroecosystems, catalogue them taxonomically, explain their spatial distribution, and identify their potential, as well as the impact of environmental phenomena.
- Using sustainability indicators, evaluate behavior of agroecosystems subjected to different interventions.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in agroecology, with emphasis on the dynamics and diversity of industrial and small farmer production systems
- Ability to conduct participatory design and evaluation of sustainable agroecosystems, both at the production unit scale as well as at the local, regional, national and global scales.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1842015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.

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3. Position Announcement No. A-1822015  
**Researcher in the area of soil science, with emphasis on recovering the productive capacity of degraded soils**

One of the areas of development is the generation of knowledge and management technologies for recovering the chemical, physical and biological conditions of soils undergoing degradation in order to improve quality, productivity and sustainability of agricultural and livestock systems.

**Job description**

- Development of methods, management technologies and indicators to recover and monitor the productive capacity of soils in different production systems.
- Increase soil resilience in the face of water deficit or excess caused by extreme climatic events.

**Key responsibilities**

- Conduct research activities to support the implementation of initiatives to recover degraded areas, including field research and knowledge synthesis at different scales.
- Integrate knowledge in different areas of soil science and agronomic management practices in order to develop strategies for recovering degraded areas and environmental services. Planning should include variability of scenarios and climate change, and analysis of tradeoff.
- Conduct field research on soil degradation processes and develop models to determine impact of recovery strategies at the production system and landscape level.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in soil science or related sciences.
- Experience in research activities having to do with management and recovery of degraded soils.
- Expertise using geographic information systems, interpretation of remote sensing images.
• Ability to propose and evaluate soil recovery strategies that optimize socioeconomic and environmental benefits derived from these practices.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1822015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.

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Geographic Information Systems

1. **Position Announcement No. A-2162015**

   **Researcher in the area of geomatics, with emphasis on management of geographic information**

   In order to intensify agricultural and livestock production in a sustainable manner, tools need to be used to support territorial analysis of short- and long-term socioeconomic and environmental risks, as well as managing natural resources appropriately in these agricultural and livestock systems.

   **Job description**

   - Apply remote sensing and spatial modeling of socioeconomic and environmental data to assess impact of current and improved livestock production systems.
   - Develop monitoring systems and contingency plans for conservation of biodiversity, ecosystems services and optimizing production systems over time.

   **Key responsibilities**

   - Prepare research projects for deploying geographic information management, cartography, and spatial modeling technologies for productive territorial land-planning.
   - Develop web-based mapping services platforms to integrate biophysical and socioeconomic variables.
   - Generate algorithms for processing digital images, geographic information systems and remote sensing information.
   - Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
   - Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
   - Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
   - Establish effective liaison with national and international scientific communities, and with private sector agencies.
   - Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
   - Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

   **Qualifications**

   - PhD in geomatics, geography or area related to geospatial sciences.
   - Expertise in applying remote sensing tools and spatial analysis to agricultural and livestock production systems.
Experience in using geographic information systems, spatial statistics, cartography and spatial modeling tools to support land-planning analyses and project future scenarios of sustainable intensification of production systems.

Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.

Ability to work in a team and provide guidance to different research teams.

Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2162015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
Harvest and postharvest

1. **Position Announcement No. A-2052015**
   **Researcher in the area of agricultural mechanization with emphasis on technology (planting, harvest and postharvest) for small producers’ production systems**

Among Corpoica’s priorities is research, development, validation and adaptation of planting, harvest and postharvest agricultural equipment for small producers.

**Job description**

Mechanical design and construction of machinery and equipment prototypes for planting, harvest and postharvest tasks, appropriate for the conditions of small producers.

**Key responsibilities**

- Make a diagnosis of the issues affecting small producers in order to identify mechanization needs and priorities at the farm level.
- Lead the design, development and construction of machinery and equipment prototypes for transforming and postharvest conditioning in the context of small agricultural and livestock producers.
- Use analysis and modeling tools to identify limiting factors as well as alternatives to optimize and improve performance of equipment available in the market.
- Collaborate with C’orpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in agricultural or mechanical engineering, with experience in agricultural mechanization of harvest and postharvest tasks in the context of small producers.
- Experience managing CAD software and programs, for example, Solid Edge, SolidWorks, Ansys, Autodesk-Autocad, and Inventor Professional.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2052015

• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. **Position Announcement No. A-2042015**

**Researcher in the area of postharvest physiology and biology of perishable products**

Research in horticulture and fruits focuses on reducing harvest and postharvest losses, by improving product conditioning, storage and transportation methods that are appropriate for the conditions of small farmers and the diversity of tropical horticulture and fruit products. The objective is conserving the product’s nutritional quality and organoleptic characteristics, and reducing postharvest losses in the context of agricultural production in different environments, including different soil nutrition and water availability conditions.

**Job description**

- Develop a research program taking into account several aspects—innocuousness, postharvest biology and physiology, development of modified atmosphere strategies, development of packaging materials, storage conditions, physiology and biochemistry of the ripening process, postharvest plant pathology—seeking to reduce losses and guarantee nutritional and organoleptic quality of horticulture and fruit products.
- Implement an innovative research program, deploying modeling tools, establishing shelf life predictions under local conditions, and considering requirements of local and international markets.
- Research will focus primarily on crops in Corpoica’s mandate.

**Key responsibilities**

- Provide technical support to the Corporation’s research programs whose objectives focus on conserving product organoleptic and nutritional quality.
- Apply technologies, developed internally or adapted, to guarantee food safety and quality assurance, and fresh conservation of perishable products, mainly fruits and vegetables, with emphasis on the needs of small producers.
- Develop joint research projects with national and international entities involved in reducing postharvest loss and maintaining the organoleptic and nutritional quality of products.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in horticulture, agronomy, agricultural engineering, food engineering and technology, biology or related fields.
- Ample expertise in the fields of biology and postharvest technology.
- Experience in mathematical modeling of transportation phenomena and physiological processes involved in both biological ripening, and in the design of fruit and vegetable conservation, transportation and storage systems.
- Experience in quality control and assurance in fruit and vegetable production chains.
- Expertise designing small-scale pre-freezing systems and controlled atmospheres.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2042015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Innovation and development of Bioproducts

1. **Position Announcement No. A-2172015**
   **Researcher in the area of bioproducts with emphasis on pharmaceutical technology**

One of Corpoica’s priorities is technological development of bioproducts using microorganisms or molecules to improve the quality, productivity and sustainability of production chains in the Colombian agricultural and livestock system. The Corporation is currently developing bioproducts resulting from the exploitation of biological resources in microorganisms, using a holistic and efficient approach. Based on this, Corpoica seeks to strengthen bioprospecting of biological resources, including exploring the biodiversity of genes, proteins, metabolites or microorganisms, as well as generating value products.

**Job description**

- Contribute to integrating multidisciplinary groups to generate bioproducts derived from microorganisms.
- Design and formulate biotechnological or chemical products.
- Prepare and carry out projects in this field, interacting with other knowledge areas, to generate technological strategies for designing and formulating bioproducts that improve sustainability and productivity indexes in different production chains in the Colombian agricultural and livestock sector.

**Key responsibilities**

- Develop and apply optimum preformulation and formulation (powder, granules, microcapsules, emulsions, suspensions, etc.) methodologies for designing bioproducts, for example, metabolites, enzymes or proteins, microorganisms, etc.
- Conduct stability, shelf life and packaging selection trials to determine efficacy of bioproducts developed, in comparison with commercial products.
- Ensure quality and reproducibility in unit operations involved in the downstream process and formulation of bioproducts.
- Carry out characterization of microbial and biochemical active principles, stability and shelf life trials, as well as standardization of unit operations.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• Pharmaceutical chemist or its international equivalent.
• DSc or PhD in pharmaceutical sciences, pharmaceutical technology, galenic pharmacology or industrial pharmacology.
• Experience in bioprocesses and bioproducts derived from bioactive microorganisms and molecules.
• Experience in designing and developing formulations, and proven track record (publications or professional experience in the industry) in chemistry of materials and processes.
• Solid knowledge of microbiology and biochemistry, and understanding intellectual property issues.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2172015

• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-2202015

Researcher in the area of bioproducts with emphasis on bioprocesses

One of Corpoica’s priorities is technological development of bioproducts using microorganisms or molecules to improve the quality, productivity and sustainability of production chains in the Colombian agricultural and livestock system. The Corporation is currently developing bioproducts resulting from the exploitation of biological resources in microorganisms, using a holistic and efficient approach. Based on this, Corpoica seeks to strengthen bioprospecting of biological resources, including exploring the biodiversity of genes, proteins, metabolites or microorganisms, as well as generating value products.

Job description

- Contribute to integrating multidisciplinary groups to generate bioproducts derived from microorganisms.
- Conduct phenomenological studies and develop bioprocesses leading to obtaining biotechnology products (metabolites, enzymes or proteins, microorganisms, etc.) that meet the needs of production chains in the Colombian agricultural and livestock sector.
- Generate and ensure an optimum technological strategy to achieve changes at the system scale.

Key responsibilities

- Develop a research strategy, based on the bioproducts unit, that leads to developing bioprocesses for obtaining biotechnology products.
- Develop and execute optimum and robust technological strategies to achieve change at the bioprocesses scale.
- Ensure quality and reproducibility of results obtained in operations and activities involved in the different stages of bioprocess development.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in biotechnology, bioprocesses engineering, industrial microbiology, chemical engineering or related sciences.
- Proven track record (publications or professional experience in the industry) designing and scaling up bioprocesses for producing microorganisms, enzymes, proteins, metabolites or other useful molecules.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2202015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
3. Position Announcement No. A-2222015

Researcher in the area of bioproducts with emphasis on biochemistry

One of Corpoica’s priorities is technological development of bioproducts using microorganisms or molecules to improve the quality, productivity and sustainability of production chains in the Colombian agricultural and livestock system. The Corporation is currently developing bioproducts resulting from the exploitation of biological resources in microorganisms, using a holistic and efficient approach. Based on this, Corpoica seeks to strengthen bioprospecting of biological resources, including exploring the biodiversity of genes, proteins, metabolites or microorganisms, as well as generating value products.

Job description

- Participate in generating and designing biotechnology products for agricultural and livestock systems, for example, metabolites, enzymes or proteins, microorganisms, etc., deploying the genetic diversity contained in individuals (genomic) and microbial communities (metagenomic).
- Given the interdisciplinary nature of this post, participate both in studies and exploration of basic sciences and in product development up to the pilot plant stage.

Key responsibilities

- Lead research projects with the purpose of designing culture media for producing metabolites, enzymes and proteins.
- Lead research projects for developing biological processes based on elucidating the biochemical and genetic bases of microorganisms involved in these bioprocesses.
- Use systems biology for studying, analyzing and modeling proteins, metabolites or relevant biological activities.
- Ensure connectivity among genotypic and phenotypic platforms of microorganisms with the generation and change of scale of bioproducts (enzymes, metabolites, other molecules or microorganisms).
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in biochemistry, microbiology, biotechnology, biology or related sciences.
- Expertise in biochemistry of microorganisms, including expression of heterologous proteins and molecular and systems biology.
- Proven track record (publications or professional experience in the industry) designing systems for producing enzymes, proteins, metabolites or other relevant molecules.
- Ample knowledge of biochemistry and experience scaling up bioprocesses.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2222015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
Integrated Management of Production Systems

1. **Position Announcement No. A-2192015**
   
   **Researcher in the area of agricultural mechanization, with emphasis on precision agriculture**

   Technological alternatives are being developed in the area of conservation and sustainable use of soils in the Colombian high plains, based on adapted species, conducting monitoring and diagnosis of soils in order to determine nutrient supply specific to each site and implementing precision agriculture strategies to maximize efficiency in the use of inputs.

   **Job description**

   - Researcher to lead research projects in the area of precision agriculture and site-specific soil diagnosis.
   - Participation in developing production models.

   **Key responsibilities**

   - Spatial analysis and modeling of crop yield and soil physical and chemical variables, data mining, applying remote sensors and geographic information systems.
   - Use computer applications with the help of systems tools (GIS, GPS, etc.) and other sources of information to arrive at variables that directly influence agriculture, for example, meteorological conditions, availability of water, soil fertility, pest and disease control, and planting and harvesting technologies.
   - Use of remote and proximal sensing methods for formulating site-specific management zones to determine varying doses of inputs.
   - Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
   - Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
   - Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
   - Establish effective liaison with national and international scientific communities, and with private sector agencies.
   - Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
   - Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

   **Qualifications**

   - PhD in agricultural engineering, systems biology, agronomy, plant production, or soil sciences, with emphasis on precision agriculture and site-specific agriculture.
• Experience in the use of related tools, such as geographic information systems (GIS), global positioning systems (GPS), and interpretation and processing of images.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2192015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. **Position Announcement No. A-2032015**  
   **Researcher in the area of agroforestry, with emphasis on ecosystem services**

Another building block is the generation of poly functional agroforestry systems that incorporate strategic tree resources (wood and shrub) in agricultural, livestock and polycrop production systems, which contribute to improving productivity and sustainability of these systems and to generate ecosystem services that guarantee long-term sustainability.

**Job description**

- Conduct research on climatic resilience, net balance of greenhouse gas emissions and ecosystem services of different agroforestry and silvopastoral agroecosystems.
- Develop methods to determine, evaluate, analyze and monitor resilience of production systems and their ecosystem services.

**Key responsibilities**

- Develop methods to determine, evaluate, analyze and monitor resilience of production systems and their ecosystem services.
- Design and evaluate prototypes of poly functional agroforestry systems that incorporate strategic arboreal resources (wood and shrub) in agricultural, livestock and polycrop production systems.
- Quantify the production, economic and environmental synergies and antagonisms among the components of agroforestry systems and propose improved management systems.
- Lead strategies that enable determining environmental services in agroforestry systems.
- Support structural and functional analyses of biodiversity in pure stand or in association in agroforestry or natural systems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in agroforestry or related areas, with expertise in analysis of resilience and environmental services.
- Expertise in using methodologies to measure greenhouse gas emissions in agroforestry systems.
- Knowledge of structural and functional analyses of biodiversity in pure stand or in association in agroforestry or natural systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2032015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
3. **Position Announcement No. A-1992015**  
**Researcher in agronomy, with emphasis on annual crop production systems**

Corpoica conducts research to develop innocuous and intensive production models, based on integrating annual crops in production systems at different spatial and temporal arrangements into different production systems for different environmental scenarios.

**Job description**

Develop intensive and sustainable agricultural production models that enable rational use of resources, improving production indexes, and obtaining innocuous, high-quality products, by defining and quantifying the dynamics and interactions of both nutrients and biotic and abiotic factors.

**Key responsibilities**

- Lead projects to quantify production and environmental synergies and antagonisms among production systems components at the soil and plant levels, with a systemic approach to production.
- Identify and implement indicators of sustainability and efficient uptake of water and nutrients in production systems with different spatial and temporal arrangements, and different intensification levels.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in agronomy, with emphasis on annual crop rotation systems.
- Expertise in designing integrated production systems based on rotation of annual crops and in identifying cover species that result in multiple benefits to the system.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.
Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: *Position Announcement No. A-1992015*

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
4. **Position Announcement No. A-2072015**  
**Researcher in the area of animal physiology, with emphasis on animal production**

Corpoica’s research focuses on developing competitive and sustainable livestock systems. In this context, the area of animal physiology conducts research to understand the metabolic, physiologic and nutritional processes that promote animal health and animal production. Priority is given to studying the mechanisms that regulate functioning of the animal’s organism and its adaptation to tropical conditions, in both local and introduced breeds of bovine and ovine species. Knowledge generated contributes to the design and optimization of animal feeding and management systems.

**Job description**

- Bring together environmental and genetic supply with physiology of bovine and ovine species in different agroecosystems.
- Conduct in-depth studies of physiological mechanisms at the level of cells, tissues, organ systems and organisms.
- Manage modern applied research techniques for studying physiological processes under tropical conditions.

**Key responsibilities**

- Lead research projects that promote the development of physiological indexes to assess the effect of climate on growth and productive and reproductive performance of ruminants.
- Develop physiological and production indicators of the response to stress.
- Develop bioclimatic models and climatic stress predictors, and understand the interaction between climatic stress and production efficiency.
- Link physiological knowledge with feeding and management strategies that increase animal productivity and make the best of environmental conditions.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in animal physiology, with emphasis on animal production.
- Expertise in developing bovine and ovine production systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2072015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
5. Position Announcement No. A-2002015

Researcher in the area of animal production, with emphasis on bovine and ovine production systems under grazing conditions

Research on bovine and ovine production systems under grazing conditions in the tropics seeks to establish soil-plant-animal-environment relationships in different agroecosystems and identify the most efficient production models based on these interactions. This area of research brings together isolated knowledge developed in different disciplines related to integrated production systems under grazing conditions.

Job description

- Lead research to quantify production and environmental synergies and antagonisms among components of production systems.
- Develop a research program in liaison with other researchers in Corpoica.
- Capacity to relate technological components focused on sustainability of production systems under different levels of intensification.

Key responsibilities

- Lead research to integrate technological components of different disciplines in specific agroecosystems and design intensive and sustainable bovine and ovine production systems in Colombia’s Caribbean region.
- Lead research projects that appraise livestock production in terms of sustainability to facilitate management. This includes characterizing and typifying production systems.
- Carry out research activities associated to developing bovine and ovine production models under grazing conditions.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in Animal Production, with emphasis on bovine and ovine productions systems.
- Expertise in animal production research.
• Ample knowledge of animal production systems, especially of bovine and ovine livestock under grazing conditions.
• Expertise in characterizing grazing systems.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2002015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.

Researcher in the area of mathematical modeling, with emphasis on cropping systems

Mathematical Modeling of cropping systems is a new line of research in Corpoica. Its objective is to include—using a mathematical approach—the most relevant variables in a problem and their relations in order to arrive at analytic or numeric solutions to predict or explain performance and arrive at more exact appraisals and measurements.

Job description

- Develop mathematical models applied to agricultural research and production systems
- Lead the development of methodologies and tools to study and predict behavior of cropping systems under tropical conditions.

Key responsibilities

- Lead research projects that foster the development of simulation, prediction and optimization models for cropping systems.
- Apply mathematical models to understand synergies and antagonisms among soil-plant-environment components in agricultural productions systems in different agroecosystems.
- Develop and use prediction and optimization models; analysis of technological, economic and environmental impact; evaluation of production strategies; and crop yield prognosis.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in plant production, agronomy, horticulture or plant physiology, with experience on mathematical modeling applied to cropping systems and crop rotations in different agroecosystems.
- Expertise in developing simulation and optimization models for cropping systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

**Terms of office**

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

**Application process**

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: *Position Announcement No. A-2062015*

• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

**Closing date**

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
7. Position Announcement No. A-2312015

Researcher in the field of mathematical modeling, with emphasis on livestock production systems

Mathematical modeling of livestock systems is a new line of research in Corpoica. Its objective is to include—using a mathematical approach—the most relevant variables in a problem and their interactions in order to arrive at analytic or numeric solutions to predict or explain performance and arrive at more exact appraisals and measurements.

Job description

- Develop mathematical models applied to livestock production systems in the tropics.
- Lead the development of methodologies and tools to study and predict behavior of livestock production systems under different genetic, environmental, nutritional and health conditions; and varying climate and economic scenarios.

Key responsibilities

- Lead research projects that foster the development of simulation, prediction and optimization models for livestock systems.
- Apply mathematical models to understand synergies and antagonisms among soil-plant-animal components in bovine and ovine production systems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in animal science, with emphasis on mathematical modeling of livestock production systems.
- Expertise in developing simulation and optimization models.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.
Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2312015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.

**Researcher in the field of plant physiology**

The physiology area is expected to develop a basic and applied research program for short-cycle, industrial crops in Corpoica’s research agenda, involving thematic areas related to promoting productivity and postharvest quality; and adapting crops to variable climatic conditions, with emphasis on abiotic stresses.

**Job description**

- Develop a research program to be incorporated in the physiological plant breeding program for yield, nutritional stress and high temperatures.
- Link physiology and plant breeding to phenotyping platforms for plant genetic resources, integrating capacities in terms of productivity, abiotic stress and adaptation to different climate change scenarios.

**Key responsibilities**

- Provide support to interdisciplinary research teams in the field of crop physiology, and actively participate in research programs within and outside Corpoica.
- Design, conduct, analyze and interpret experiments conducted in laboratories, growth chambers, and greenhouses in the field of plant physiology-focusing on improving crop conditions, crop productivity, and reducing and managing abiotic stresses.
- Actively collaborate with the Corporation’s breeding programs to incorporate the concept of physiological breeding.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in plant physiology, agronomy or crop physiology, with emphasis on stress physiology.
- Expertise in tropical agriculture production systems; breeding for yield, abiotic stresses, and adaptation to climate change scenarios; phenotypic characterization and developing sustainable cropping systems.
• Ample knowledge of phenology and variables related to growth, flowering and fruiting; and also of leaf area index, photosynthetic efficiency, bioclimatic models, etc.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1852015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Specialist in the field of plant physiology

Corpoica’s research agenda in the agricultural sector includes a broad array of plant species produced in different environments and production systems. As such, the task is understanding performance of these crops in the face of diverse environmental challenges that pose serious limitations to agricultural productivity, such as soils with nutritional deficiencies, water stress (excess or deficiency), extreme temperatures, luminosity, interspecific competence in mixed production systems, etc. The Corporation is looking for a researcher with competency in crop physiology and who can contribute—in collaboration with breeders, pathologists, hydrologists, modelers, entomologists and plant and soil microbiologists—to decision making for optimum management of crops and for maximizing yield potential, without negatively affecting conservation of biodiversity and the environment.

Job description

- Develop a basic and applied research program, including thematic areas related to promoting productivity and postharvest quality, adaptation of crops to different climate scenarios, with emphasis on water stress and efficient use of nutrients, in horticultural crops, and roots and tubers included in Corpoica’s research agenda.
- Develop the research program by providing elements to a physiological breeding program for yield, nutritional stress, water stress and high temperatures.
- Ensure that physiology and plant breeding are linked to phenotyping platforms for plant genetic resources.
- Analyze and understand the relationships among productivity, abiotic stress and adaptation to climate change scenarios.
- Establish links with modeling efforts to feed physiological data.

Key responsibilities

- Provide support to interdisciplinary research groups in areas of crop physiology and optimum water use, and actively participate in research programs inside and outside Corpoica.
- Design, conduct, analyze and interpret experiments conducted in laboratories, growth chambers and greenhouses, in the field of plant physiology and focused on improving cropping conditions and productivity, reducing and managing water and nutritional stress, and high temperatures.
- Actively collaborate with the Corporation’s breeding programs to incorporate the concept of physiological breeding.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
• Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in plant physiology, agronomy, crop physiology, or horticulture, with emphasis on stress physiology.
• Expertise in phenology and variables related with growth, flowering and fruiting, as well as leaf area index, photosynthetic efficiency, etc.
• Expertise in tropical agriculture production systems, breeding for yield, water and nutritional stress, adaptation to climate change scenarios, phenotypic characterization, and developing sustainable cropping systems.
• Expertise in developing physiological indexes to evaluate the effect of climate change on growth and productive performance of plant species, their response to stress, and the development of bioclimatic models and predictors of climate stress and its effect on production efficiency, preferably with roots and tubers, and horticultural crops.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1862015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.
Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.

**Researcher in the area of physiology of fruits and short-cycle crops, with emphasis on protected agriculture**

Tropical conditions require developing technological strategies for agricultural production under protected conditions, emphasizing the validation of technologies for different horticultural species based on climate control and water and nutrient management, identification of physiological limiting factors of production under protected conditions, and defining optimum environmental parameters for production.

**Job description**

- Vegetable and fruit production under protected conditions.
- Understanding interactions between production and the environment.
- Develop management strategies that enable designing protected production systems for small farmers.

**Key responsibilities**

- Lead research projects to generate adequate production technologies for vegetables and short cycle fruits, under protected conditions.
- Define optimum environmental parameters for growing and producing vegetables and short-cycle fruits under protected conditions.
- Participate in planning, designing, constructing, evaluating, operating, installing, automating, managing, administering, investigating and developing technologies for protected agriculture production and biobusiness, under the parameter of rational and sustainable use of resources.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in short-cycle crop physiology, with emphasis on protected agriculture production systems.
Expertise in developing vegetable and short-cycle fruit production under greenhouse conditions, including knowledge of greenhouse facilities and control of environmental conditions.

Expertise in flowering and fruiting physiology, and of interactions with environmental parameters (temperature, humidity, solar radiation, efficient use of water and nutrients) for designing improved systems.

Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.

Ability to work in a team and provide guidance to different research teams.

Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1982015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.

Researcher in the area of fruit production

Fruit production in Colombia includes a broad diversity of species, varieties and production systems, which vary from those highly technical to the more artisanal production systems. The Corporation is seeking a researcher in fruit production systems with emphasis on small producers, to incorporate technologies associated with genetic materials, planting systems, irrigation, protected systems, and crop rotation, with the objective of reducing the use of agrochemicals, improving food health and meeting the demands of specialized markets.

Job description

Fruit production systems focused on quality assurance and food safety, using technologies that integrate biotic aspects and the physical environment for developing and managing efficient production systems.

Key responsibilities

- Lead and execute research projects for generating innovative production models that contribute to the overall improvement of the fruit production system.
- Lead the process of formulating criteria for identifying promising fruit species not currently exploited and potential markets for these products.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in horticulture/fruits, with emphasis on production of short-cycle fruits.
- Ability for developing fruit production models in the field and under greenhouse conditions.
- Experience in integrated management of plant health, innocuousness, biological control, and toxicology of pesticides in fruit systems.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2242015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.

Researcher in the area of vegetable and fruit production

Vegetable and fruit production in Colombia includes a broad diversity of species, varieties and production systems, which vary from those highly technical to the more artisanal production systems. The Corporation is seeking a researcher in horticulture production systems with emphasis on small producers, to incorporate technologies associated with genetic materials, planting systems, irrigation, protected systems, and crop rotation, with the objective of reducing the use of agrochemicals, improving food health and meeting the demands of specialized markets.

Job description

Horticulture production systems focused on quality assurance and food safety, using technologies that integrate biotic aspects and the physical environment for developing and managing efficient production systems.

Key responsibilities

- Lead and execute research projects for generating innovative production models that contribute to the overall improvement of the horticulture production system.
- Lead the process of formulating criteria for identifying promising horticulture species not currently exploited and potential markets for these products.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in horticulture with emphasis on production of vegetables and short-cycle fruits.
- Ability for developing horticulture production models in the field and under greenhouse conditions.
- Experience in integrated management of plant health, innocuousness, biological control, and toxicology of pesticides in horticulture systems.
Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.

- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2012015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.

Back to index
Genetic and Plant breeding

1. **Position Announcement No. A-1962015**  
   **Researcher in the field of biotechnology, with emphasis on plant tissue culture**

One of Corpoica’s priorities is the use of biotechnology, with emphasis on cell and tissue culture, as well as cryopreservation as a long-term, not too expensive, conservation option, for plants that produce non-orthodox seed or that propagate vegetatively.

**Job description**

The researcher must have ample knowledge and experience in cell, organ and tissue culture, applied to agriculture, as well as in cryopreservation of plant species for long-term conservation in germplasm banks, in order to lead and integrate multidisciplinary groups in this area.

**Key responsibilities**

- Lead Corpoica’s research strategy in the area of cell and tissue culture of plant species important for food and agriculture in Colombia.
- Implement new conservation techniques for different types of explants, including culture of cells, callous, apex, seed, pollen or embryos of recalcitrant seed or of vegetatively propagated species.
- Establish and implement long-term cryopreservation methods of plant germplasm collections, studying the effect of liquid nitrogen (N2) storage time on survival and regeneration, as well as on genetic stability.
- Investigate other cryopreservation techniques such as cryoselection or cryotherapy for eliminating virus in infected plants.
- Establish methods for formulating culture medium, ex vitro plant handling, and cell and tissue propagation techniques.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in biotechnology, biology, agronomy or related sciences, with emphasis on plant tissue culture.
- Expertise with in vitro handling of cells, organs and tissues for propagating and regenerating plants.
- Expertise with cryopreservation methods for long-term plant conservation.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1962015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-1892015

   Researcher in the area of genetic and plant breeding, with emphasis on minor cereals

The ultimate objective of the genetic breeding area is to deliver plant materials with improved attributes that provide comparative advantages to the producer in comparison to available cultivars, and that add value to his/her products in the production and commercialization chain. Breeding programs work hand in hand with germplasm banks to find the most relevant attributes for specific conditions and use both traditional breeding techniques and molecular biology methods.

Job description

Lead the minor cereals genetic breeding program for the high tropics, in search of improved production and quality attributes in materials adapted to different agroecosystems, using traditional breeding methods and interpreting the molecular biology data base for assisted selection of qualitative and quantitative attributes.

Key responsibilities

- Lead research projects for genetic breeding of cereals, including Andean cultivars.
- Select parental lines from the germplasm banks as a research activity related to pre-breeding methods and/or conventional methods supported by marker-assisted or genomic selection techniques, especially for attributes involving complex heredity.
- Implement selection methodologies for efficiency in nutrient and water uptake, and other priority agronomic attributes to capture genetic superiority.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

- PhD in genetics and plant breeding, with emphasis on minor cereals.
- Experience estimating and interpreting quantitative and population genetic parameters, experimental designs and statistics tools used in breeding.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1892015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
3. **Position Announcement No. A-1912015**

*Researcher in the area of genetic and plant breeding, with emphasis on annual fruit crops*

The ultimate objective of the genetic breeding area is to deliver plant materials with improved traits that provide comparative advantages to the producer in comparison to available cultivars, and that add value to his/her products in the production and commercialization chain. Breeding programs work in coordination with germplasm banks to find the most relevant traits for specific conditions and use both traditional breeding techniques and molecular biology methods.

**Job description**

Lead the annual fruits genetic breeding program for high tropical regions, in search of improved production and quality traits in materials adapted to different agroecosystems, using traditional breeding methods coupled with molecular biology and genomics for assisted selection of qualitative and quantitative traits.

**Key responsibilities**

- Lead and participate in the generation and execution of research projects for genetic breeding of annual fruit cultivars.
- Select parental lines, both in rootstocks and scions, from germplasm banks to perform pre-breeding and/or breeding conventional methods supported by marker-assisted selection or genomic selection, especially for complex traits.
- Evaluate and select the best combinations among rootstocks and scions based on value and compatibility traits.
- Implement selection methodologies for efficiency in nutrient and water uptake, and other priority agronomic traits to capture genetic superiority.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in genetics and plant breeding.
• Expertise estimating and interpreting quantitative and population genetic parameters, experimental designs and statistics tools used in breeding.
• Desirable qualification: Experience in fruit and/or horticultural breeding.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1912015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
4. **Position Announcement No. A-1932015**

**Researcher in the field of genetic and plant breeding, with emphasis on forages**

The objective of Corpoica’s research in livestock systems is to develop intensive bovine production models based on grazed forages. Of special importance in highlands of the Andean regions—where most of Colombia’s milk production is located—is the search for forage grass and legume materials having adequate nutritional quality during the different stages of the animal’s productive life.

**Job description**

- Lead forage breeding programs, for materials adapted to the high tropics, for dairy cattle systems in hillsides and plateaus.
- Develop improved forage cultivars, adapted to specific production niches, selected for their good nutritional attributes, and with potential of improving animal consumption and production.
- Maintain close interaction with the forage breeding program for the lowland regions and with the animal breeding program.

**Key responsibilities**

- Lead research projects for genetic improvement of grass and legume cultivars, potentially suitable for bovine and ovine feed.
- Develop a strategy for constructing a collection of forage resources for the high tropics, as the baseline for structuring the forage germplasm bank of Corpoica.
- Implement methodologies for selecting materials that are efficient in water and nutrient uptake, and other priority agronomic attributes for capturing genetic superiority.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in genetics and plant breeding, with emphasis on forages.
• Experience estimating and interpreting quantitative and population genetic parameters, experimental designs and statistics tools used in breeding.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1932015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
5. **Position Announcement No. A-1812015**

**Researcher in the area of plant biotechnology or biochemistry, with emphasis on bioprospecting of metabolites**

Corpoica is currently developing strategic plans for implementing genotyping and phenotyping platforms, together with network information platforms to promote knowledge and use of biological resources, with a more holistic and efficient approach. The purpose is to strengthen characterization and evaluation of genetic resources through bioprospecting, including exploring gene biodiversity, proteins, metabolites, or organisms to generate value products. The researcher required must lead and integrate multidisciplinary groups involved in bioprospecting of valuable metabolites in order to deploy, in a sustainable manner, existing biodiversity in plant species important to Colombia.

**Job description**

- Evaluate plant attributes that could potentially be used as food or in the food industry.
- Lead processes to explore biodiversity in plant metabolites, resulting in the generation of value products for food and agriculture of commodity crops such as potatoes, cacao and/or fruits.
- Integrate data obtained through near-infrared spectroscopy (NIRS), chromatography or other technologies for studying metabolites using bioinformatics tools in order to predict metabolic pathways related to food quality or biotic and/or abiotic stresses.

**Key responsibilities**

- Lead research projects to quantify and value phenotypic attributes related to chemical composition of plants, focused on metabolomics for food and agriculture.
- Use systems biology to study, analyze and model metabolites of interest for food quality or having to do with biotic or abiotic stress in commodity crops.
- Integrate metabolomics with genomics in response to environments to study the function of valuable genes in order to deploy this knowledge in plant breeding of commodity crops.
- Use metabolomics as a method to predict food quality and/or as a method for evaluating the response of crops to contrasting environments.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in plant biotechnology or plant biochemistry with emphasis on metabolomics or related sciences.
• Expertise in studying metabolite profiles under different environmental conditions.
• Expertise in systems biology and use of bioinformatics tools for recording metabolites and inference of metabolic pathways.
• Desirable qualification: experience in integrating metabolomics data with genomic data in order to generate useful information for plant breeding of mandated crops.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1812015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
Researcher in the field of seed physiology

Corpoica’s research agenda in the agricultural sector covers a broad diversity of plant species, grown in different environments and under different production systems. Thus the task is understanding crop performance in the face of environmental challenges that limit agricultural productivity. A seed physiology research program is expected to provide the knowledge required to optimize high-physiological seed quality production processes and offer support to seed production, especially among small farmers.

Job description

- Lead research processes for seed production and conservation to provide technical support to the seed industry and to producer associations involved in small-scale seed production, within the framework of the National Seed Plan.
- Develop a basic and applied research program in the field of seed physiology, including research areas that take into account the influence of cropping conditions on seed quality and viability; the effects of nutritional stress on germination, vigor and productivity of plants grown from these seeds; and basic aspects of genetic resources such as variability in viability of seed conserved under different methods in germplasm banks.

Key responsibilities

- Develop a multidisciplinary program in seed physiology of species in Corpoica’s research mandate, integrating basic conservation and evaluation aspects, and predicting seed viability of species propagated either by sexual or vegetative means.
- Develop new knowledge on seed physiology as well as germination, conservation and production strategies for orphan crops in support of the National Seed Plan.
- Develop and implement processes and machinery for high-physiological seed quality production and conservation, in collaboration with both internal and external relevant research groups.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in plant physiology, with emphasis on seed production.
- Knowledge of mother plant physiology, germination and latency physiology, physiology of seed deterioration, and seed molecular biology and physiology.
- Expertise in seed technology (optimization, multiplication, production, postharvest processing, storage and conservation), internal quality control, molecular markers.
- Desirable expertise in commercialization and marketing, seed production legislation, intellectual property, etc.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1972015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
7. Position Announcement No. A-1802015

Researcher in the area of systems and molecular biology of microorganisms

Corpoica is currently developing genotyping and phenotyping platforms, together with network information platforms to promote knowledge and use of biological resources, using a more holistic and efficient approach. The purpose is to strengthen characterization and evaluation of genetic resources through bioprospecting, including exploring gene biodiversity, proteins, metabolites, and organisms to generate value products. The researcher required must develop areas of work in molecular biology and systems biology, as well as in genetic modification of microorganisms or metabolic pathways.

Job description

- Knowledge of molecular biology and systems biology enabling participation in the generation of biotechnology products for agricultural and/or livestock systems (for example, metabolites, enzymes, proteins or microorganisms) taking advantage of genetic diversity in individuals (genomic) and microbial communities (meta-genomic).
- Given the interdisciplinary nature of this position, the researcher must participate in the above mentioned context, both in studying and exploring basic science and in supporting development of bioproducts up to the pilot plant stage.

Key responsibilities

- Lead research in molecular biology, specifically in modifying metabolic pathways, cloning and heterologous gene expression.
- Work out limiting factors and complexities in the expression of heterologous proteins in eukaryote cells (for example, modulating post translational mechanisms).
- Purify recombinant proteins of microbial origin from different systems: Escherichia coli, yeast, insects (Sf9, Sf21 and other); and/or mammals (HEK293, CHO and other).
- Use systems biology for studying, analyzing and modeling proteins, metabolites and biological activities of interest.
- Ensure connectivity between genotypic and phenotypic platforms of microorganisms by generating and changing the scale of bioproducts (enzymes, metabolites, other molecules and microorganisms)
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in microbiology, biology, biochemistry or related sciences, with emphasis on systems and molecular biology of microorganisms.
• Expertise in molecular biology, systems biology and biochemistry of microorganisms, including expression of heterologous proteins.
• Ability to manage different expression systems of recombinant proteins with selective markers, including fluorescent markers.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1802015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
1. **Position Announcement No. A-1922015**
   **Researcher in the area of plant epidemiology**

Epidemiologic research in plant pathogens seeks to develop disease management technologies in crops included in the agricultural chains in the different regions of the country, in order to guarantee productivity and sustainability of national production systems. Factors related to host, climate, pathogen and agroecosystem management also need to be understood by conducting a quantitative and comprehensive analysis of tropical pathosystems to plan sustainable biological disease management strategies, more beneficial in both environmental and socioeconomic terms.

**Job description**

- Develop a research program focused on the epidemiology of new and existing phytosanitary problems affecting Corpoica’s mandated crops.
- Studies can address, but not be limited to, the epidemiology of existing or emerging diseases, and pathogen dispersion models that take into account threats posed by local climatic variability and climate change predictions as the basis for generating strategies for integrated pest management.

**Key responsibilities**

- Conduct research on diseases caused by tropical plant pathogens involving virus, bacterial, fungi, plant parasitic nematodes, with emphasis on epidemiological aspects.
- Establish strategies for monitoring, predicting and running simulation of epidemics in pathosystems in crops in Corpoica’s research agenda.
- Contribute to the development of technologies for epidemiologic analysis, prognosis and alert systems, to be used in the agricultural chains in the country’s different regions and that guarantee applying a relevant integrated pest management strategy.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in plant epidemiology and biostatistics, plant protection or plant pathology.
- Experience with studies on different families of techniques, analysis and utilization of information on epidemiologic components of diseases in tropical crops, including implementing qualitative and quantitative models to facilitate monitoring the host-pathogen-environment interaction and helping to establish prognosis or alarm systems.
- Expertise in using computational methods for dynamic quantification and analysis of spatial-temporal patterns involved in the development of epidemics, in order to propose control strategies and better understand factors influencing disease development.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1922015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-1942015

**Researcher in the area of plant pathology**

The plant pathology area focuses on integrated management of diseases affecting crops included in Corpoica’s research agenda to optimize health protocols that ensure high food safety standards and meet health requirements and demands of consumers and the overall market. To fulfill this purpose, research projects in tropical crops must include integrated pest and disease management (IPDM), good agricultural practices (GAP), and hazard analysis and critical control points (HACCP); and contribute to quality assurance and food safety.

**Job description**

- Develop a research program focused on horticultural and fruit species, to understand the plant’s defense mechanisms and the pathogenicity mechanisms of the agent causing the disease, in order to develop crop management recommendations and solutions to problems identified by producers.
- Fulfill the objective of ensuring innocuousness of the crop and its harvest, and reducing the need for applying agrochemicals.

**Key responsibilities**

- Conduct research on diseases caused by tropical plant pathogens involving plant parasitic virus, bacteria, fungi and nematodes, with emphasis on quality assurance and food safety.
- Develop key knowledge to understand host-pathogen interactions; develop control mechanisms and breeding strategies for resistance to biotic stress.
- Contribute to developing epidemiologic analyses, prognosis and alarms designed for the agricultural chains in the different regions of the country, and guarantee the appropriate use of integrated disease management.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in plant protection and plant pathology, with emphasis on traditional and modern diagnosis methods (using -omics technologies).
- Expertise in schemes for low and medium-altitude tropical crops safety standards and for health assurance and traceability with standardized technical processes and supports that maintain or improve health status and competitiveness of crops in a specific geographic environment.
- Ability to conduct studies using different families of techniques, analysis and utilization of information on integrated pest and disease management (IPDM), good agricultural practices (GAP), and hazard analysis and critical control points (HACCP).
- Proven experience in the use of traditional and molecular diagnosis tools.
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1942015

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Soil and water sciences

1. **Position Announcement No. A-2022045**
   
   **Researcher in the area of agricultural mechanization, with emphasis on appropriate soil management technology**

The area of agricultural mechanization requires developing equipment and soil management technologies for hillside agriculture, with emphasis on small producers.

**Job description**

- Mechanical design and construction of machinery and equipment prototypes appropriate for environment-friendly mechanization practices that enable soil and water conservation, and erosion control.
- Use and implementation of information processing systems for small farmers involved in livestock and agricultural production.

**Key responsibilities**

- Research in design, development, construction and maintenance of machinery and equipment prototypes for soil management and conservation.
- Develop a diagnosis of problems faced by small producers in order to identify needs and priorities of mechanization at the farm level.
- Use management and mathematical modeling technologies to run simulations in order to optimize and improve performance of animal traction equipment.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in agricultural or mechanical engineering, with experience in agricultural mechanization for small producers.
- Experience managing CAD software and programs, for example, Solid Edge, SolidWorks, Ansys, Autodesk-Autocad, and Inventor Professional.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2022015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 11/10/2015, or later, until a suitable candidate has been identified.
2. **Position Announcement No. A-2182015**  
**Researcher in the area of hydrology, with emphasis on risk evaluation**

One of Corpoica’s priorities in the area of hydrology is analyzing water resources, flow, transfer and fluctuation at different spatial and temporal scales related with variability and climate change; and evaluating water supply and requirements for a specific crop, in order to reduce risk for production systems in extreme climatic events (drought, flooding).

**Job description**

- Generation of regional hydrological scenarios to evaluate risk of flooding or drought associated to variability and climate change.
- Development of hydrological models and water productivity calculations in different production systems.
- Design of local innovations for more efficient water storage and use.
- Development of water management decision systems for producers, technical assistants, and decision makers.

**Key responsibilities**

- Generating simulation models of water resources at the production system, landscape and watershed scales, and implementing them in nationally important agricultural systems.
- Representing and modeling mathematical principles for solving problems related to water supply for agricultural purposes.
- Comprehensive analysis of water resources and climatic water supply to identify agroclimatic niches exhibiting less risk of being exposed to extreme climatic phenomena.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in hydrology or related sciences, with expertise in water modeling and evaluation of hydrological risks at the watershed and production systems scales.
• Ability to use geographic information systems and manage specialized software required by this post.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2182015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
3. Position Announcement No. A-1792015

Researcher in the area of soil and water sciences

Colombia experiences periodic variations in the availability of water that range from floods to drought periods, negatively affecting agricultural and livestock production systems. Therefore, the area of soils and water is expected to establish interdisciplinary collaboration with hydrologists, modelers, agroclimatologists, physiologists and experts in soil chemistry, in an effort to provide the basis for decision making for optimum management of crops and maximizing yield potential, within the context of restoring and conserving soil quality, and optimizing the efficient use of water resources.

Job description

- Evaluation and interpretation of soil resources to understand mechanisms that promote optimization of this resource and guarantee agricultural and livestock production, environmental quality and human health.
- Preparation and execution of research projects in this field, in collaboration with other areas of knowledge, in order to generate better cropping practices, and more efficient water management and utilization in different types of soils, crops and topographies throughout the country.

Key responsibilities

- Evaluate water harvesting, management and utilization options under different production systems and environmental conditions (plains and hillsides).
- Generate efficient management strategies for making the most of water resources, and design drainage systems that are appropriate for the water balances and requirements of specific crops.
- Implement mathematical modeling tools or decision making systems for developing water use recommendations.
- Design irrigation (dripping, sprinkling, microspraying) and fertigation systems for hillside conditions.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.
Qualifications

- PhD in soil sciences, with emphasis in water resources management
- Capacity in adapting and implementing irrigation systems for managing water efficiently in small farms and ability to develop strategies for conserving water resources in the soil and subsoil.
- Design and utilization of rainwater harvesting systems, and utilization of underground water using alternative sources of energy.
- Experience managing and recovering soils (dealing with compaction, acidity, salinity)
- Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
- Ability to work in a team and provide guidance to different research teams.
- Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1792015
- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
4. **Position Announcement No. A-1952015**  
**Researcher in the area of soil and water sciences, with emphasis on plant nutrition**

The plant nutrition area seeks to develop a basic and applied research program, including thematic areas related to promoting integrated management of soil fertility—invoking chemical, organic and biologic amendments in different agroecosystems.

**Job description**

- Develop a research program that integrates productive capacities, abiotic stresses and adaptation to climate change scenarios, which would feed breeding program on physiological yield and nutritional stress.
- Implement an integrated fertilization system to optimize use and uptake of nutrients.

**Key responsibilities**

- Provide support to interdisciplinary research groups in the field of crop nutrition and soil fertility, and actively participate in research programs within and outside Corpoica.
- Design, conduct, analyze and interpret laboratory experiments, growth chambers, green houses, and in the field, in the area of plant nutrition with the purpose of improving crop conditions, and increasing productivity and efficient use of nutrients.
- Actively collaborate with the Corporation’s breeding programs to incorporate the concept of physiological breeding, looking for genetic materials that use nutrients more efficiently.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in plant physiology, agronomy, soil sciences, crop physiology, or horticulture, with emphasis on plant nutrition or management of soil nutrition.
- Expertise in identifying phenological crop stages, defining fertilization plans focused on the efficient use of nutrients, determining nutritional requirements, nutrient cycling of animal and plant residues, and integrated soil management to reduce costs and contamination, and increase yields.
• Experience using legumes to fix atmospheric nitrogen, and in managing precision fertilization, reducing costs and contamination and increasing yields.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-1952015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
5. **Position Announcement No. A-2212015**  
    **Researcher in the area of soil science, with emphasis on soil physics**

Corpoica’s soils area expects to develop a research program to evaluate and interpret soil resources in order to understand the mechanisms that promote optimization of physical and chemical soil processes to guarantee productivity of agricultural and livestock systems, environmental quality and human health.

**Job description**

Preparation and execution of research projects in the area of soil sciences, in liaison with other knowledge areas, to develop physical soil management and conditioning practices based on different tilling systems; use of organic amendments; and management of soil cover and crop residues.

**Key responsibilities**

- Study factors contributing to morphology, and chemical, physical and biological factors contributing to soil formation in different regions and production systems in the country.
- Study the dynamics and processes set off by the addition to the soil of organic amendments (innocuous residues from agricultural, industrial or animal production processes); their contribution to improving soil physical quality; and their short-, medium- and long-term effects on agricultural and livestock production.
- Evaluate and interpret information on soil physics and study soil management strategies for agriculture, agroforestry and erosion control.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
- Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
- Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

**Qualifications**

- PhD in soil sciences, with emphasis on soil physics.
- Expertise in soil management and conservation, with emphasis on soil physics and its implementation in conservation agriculture and tillage systems for small farmers.
• Expertise in systems for monitoring soil degradation and recovery in order to design soil cover and other management practices to improve water retention capacity and reduce losses due to evaporation.

• Ability to develop production systems resilient to extreme climatic events, based on management of production variables related to soil physics.

• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.

• Ability to work in a team and provide guidance to different research teams.

• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2212015

• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.

• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
1. **Position Announcement No. A-2122015**  
*Researcher in the area of rural development*

In its role as driving force, actor and support for the National Science and Agroindustrial Technology System, Corpoica backstops the Ministry of Agriculture and Rural Development in coordinating, systematizing and transmitting knowledge among actors in the Agriculture and Livestock Technical Assistance Subsystem. To fulfill this commitment, the Corporation develops strategies to link and transfer technology and knowledge offer to the agriculture and livestock sector.

Corpoica seeks to strengthen technology transfer by implementing strategies that link technology and knowledge offer, by generating alliances to promote this link, by promoting innovation and development nuclei, and by implementing and monitoring business management models that respond to market demands.

**Job description**

- Lead and develop a research program in this field, generating indicators and strategies to coordinate technology transfer and extension, as part of social knowledge management in the pedagogical and capacity strengthening effort to support technical assistance.
- Formulate and carry out interdisciplinary, transdisciplinary and participatory projects and activities that promote rural development and technology adoption.
- Prepare and implement research projects to strengthen research on
  - local and territorial dynamics of family agriculture;
  - adding value to regional agricultural production chains;
  - management and optimization of the territory and its natural resources;
  - construction and evaluation of regional development strategies; and
  - analysis of cultural and institutional aspects for generating sustainable and self-managed development processes among rural communities.

**Key responsibilities**

- Strengthen and apply knowledge on aspects related to social research in the rural sector as a means for strengthening technological development in the agricultural and livestock sector.
- Design and apply methodologies, technologies and instruments of analysis for interpreting and applying results of characterization processes of social, economic and cultural aspects.
- Apply results achieved in agricultural and livestock research, basically in aspects having to do with gender issues to reduce inequity.
- Design and implement tools to measure and differentiate decisions made by communities and producer associations in different production systems.
• Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
• Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
• Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
• Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in rural development or related areas.
• Expertise in evaluating, selecting and adopting agricultural and livestock technologies in different production systems, focused on territorial development as a whole and on improving the livelihoods of rural communities.
• Experience in analyzing and interpreting social, economic and environment information of rural communities.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2122015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.
Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-2142015
   Researcher in the area of rural sociology

In its role as driving force, actor and support for the National Science and Agroindustrial Technology System, Corpoica backstops the Ministry of Agriculture and Rural Development in coordinating, systematizing and transmitting knowledge among actors in the Agriculture and Livestock Technical Assistance Subsystem. To fulfill this commitment, the Corporation develops strategies to link and transfer technology and knowledge offer to the agriculture and livestock sector.

Corpoica is currently designing an institutional, systematic and on-going strategy to improve the impact of science and technology activities developed by the Corporation. This effort implies including economic criteria and social indicators in its research projects to foment agricultural and rural development, inclusive growth, poverty reduction, gender equality and sustainable livelihoods.

Job description

- Formulate and carry out interdisciplinary, transdisciplinary and participatory projects and activities that promote rural development and technology adoption.
- Prepare and carry out research projects in rural development by integrating activities with other knowledge areas in order to improve social impact of Corpoica's science and technology activities, in collaboration with other stakeholders in the national agricultural and livestock science and technology system, thus strengthening regional innovation and rural development processes.

Key responsibilities

- Develop participatory and innovative strategies and approaches to promote environmentally, economically and socially sustainable agricultural development.
- Lead actions that foment participatory research, actions and evaluations with groups, organizations and communities, and analyze and interpret social processes that take place in rural environments.
- Collect micro- and macroeconomic information, environmental data and social analyses to evaluate the impact of Corpoica’s science and technology activities.
- Design and implement tools to measure and differentiate decisions made by communities and producer associations in different production systems.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in rural sociology, agrarian social structure, rural societies, or related areas.
• Experience analyzing and measuring behavior, preferences and decisions of rural communities, rural technical assistants and their internal and external interrelationships affecting agricultural and livestock production.
• Knowledge of the main theoretical approaches in the disciplines of social science and ability to express this knowledge in research processes aimed at sustainable rural development.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2142015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Technology Transfer

1. **Position Announcement No. A-2082015**  
   **Researcher in the area of communication for development**

In its role as driving force, actor and support for the National Science and Agroindustrial Technology System, Corpoica backstops the Ministry of Agriculture and Rural Development in coordinating, systematizing and transmitting knowledge among actors in the Agriculture and Livestock Technical Assistance Subsystem. To fulfill this commitment, the Corporation develops strategies to link and transfer technology and knowledge offer to the agriculture and livestock sector.

Corpoica promotes technical change through research and development, implementing strategies to establish links between technology and knowledge offer, establishing alliances that open the way for this to happen, promoting innovation and development nuclei, and implementing and monitoring business management models responding to market offers.

**Job description**

- Lead and develop research on agricultural extension and communication models to catalyze technology transfer and adoption in a diverse socioeconomic and technological development context, in order to generate strategies to link technology transfer and extension as elements of social knowledge management in the context of a pedagogical and training axis for providing support to technical assistance efforts.
- Design and implementation of new communication, diffusion and dissemination tools for transferring knowledge and technologies to the agricultural sector, starting by acknowledging the physical and virtual environments in which targeted rural communities develop.

**Key responsibilities**

- Strengthen and apply knowledge in aspects having to do with social research in the rural sector as a means to strengthen agriculture and livestock technological development.
- Propose and implement adjustment of existing corporate tools for information diffusion and dissemination in such a way that they respond to learning styles and initial resources of rural communities, thus favoring two-way communication and mutual learning.
- Propose and develop communication strategies for promoting a scientific and technological culture, through corporate knowledge management networks, production chain networks and territorial networks.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
• Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in communications for development, information and communication technologies, communication and society, or related areas in the agricultural sector.
• Teaching ability and experience in social knowledge management through the development of knowledge and technology information diffusion and transfer in the rural sector.
• Expertise in developing and adapting communications planning processes for specific programs in rural environments.
• Expertise in evaluating impact of implementing communication programs and processes.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2082015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
2. Position Announcement No. A-2102015

**Researcher in the area of sociology or anthropology with emphasis on qualitative research for the agriculture and livestock sector**

In its role as driving force, actor and support for the National Science and Agroindustrial Technology System, Corpoica backstops the Ministry of Agriculture and Rural Development in coordinating, systematizing and transmitting knowledge among actors in the Agriculture and Livestock Technical Assistance Subsystem. To fulfill this commitment, the Corporation develops strategies to link and transfer technology and knowledge offer to the agriculture and livestock sector.

Social and economic research of the rural sector is a line of research that Corpoica is currently strengthening with the objective of fomenting technological development in the agriculture and livestock sector.

**Job description**

- Lead social and economic research and use, and integrate qualitative methodology for addressing the sociocultural component in research projects being implemented by the Corporation.
- Develop indicators and strategies for linking qualitative research methodologies and biological research methodologies, in an effort to establish an interrelationship between social and cultural characteristics of producers, and the technological components developed by the Corporation.

**Key responsibilities**

- Lead strategies for developing tools and implementing qualitative research linked to Corpoica’s research agenda.
- Identify priority areas and contexts where qualitative methodology could be applied in the research processes implemented by the Corporation.
- Select qualitative research methodologies, technologies and tools to be applied in each case, based on the specific subject of study and the objectives of research.
- Systematize and design strategies to analyze qualitative information collected and construct qualitative indicators.
- Collaborate with Corpoica’s researchers in discussing and executing research activities in his/her field of expertise.
- Serve as an internal peer in advising, reviewing and giving written concepts on projects, final reports and publications submitted for his/her consideration.
- Serve as mentor and supervise junior researchers and students participating in corporate dynamics.
- Establish effective liaison with national and international scientific communities, and with private sector agencies.
• Prepare reports and publications in national and international peer-reviewed journals in the field of research projects or activities in which he/she participates as executor or co-executor.
• Participate in events having to do with liaison or dissemination of research highlights among technical assistants and agencies in the field related to territorial innovation nuclei.

Qualifications

• PhD in sociology or anthropology, with emphasis on qualitative research.
• Experience developing instruments and applying qualitative research methodologies in the rural sector.
• Fluency in English and sufficient knowledge of Spanish to enable communicating with staff in carrying out research activities.
• Ability to work in a team and provide guidance to different research teams.
• Proven ability in preparing research proposals.

Terms of office

This is a permanent position; salary is competitive for Colombian standards. During the selection process, corporate needs will be considered in order to determine where the position would be based.

Application process

Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify: Position Announcement No. A-2102015
• Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
• Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.

Closing date

The position will remain open until 25/10/2015, or later, until a suitable candidate has been identified.
Persons interested in the position should send the following documents in English, to the email jobs@corpoica.org.co. The subject line should specify the number of the position announcement.

- Updated Curriculum Vitae including list of publications, working experience, a brief description of your most relevant research results, and professional references with contact information.
- Cover letter highlighting experience that qualifies you for the position and a brief proposal of how you would develop a research program in the area described above.