



FACULTY POSITION IN BIOSYSTEMS ENGINEERING

Sustainable Bioprocess Engineer

Increasing concern for the current climate crisis, heightened awareness of contaminant release from petroleum-based products that impact ecosystem and human wellbeing, and knowledge of the ecological and health benefits of biobased products/processing motivates biosystems engineers to design sustainable bioprocesses to meet the needs of society within an ecological framework. The practice of genuine sustainable engineering research, design, teaching, and service is required to help solve these major challenges.

The Biosystems Engineering program in Environmental Engineering and Earth Sciences at Clemson University invites applications for a tenure-track faculty position at the Assistant or Associate Professor level beginning Fall 2025. The Program is housed within the Department of Environmental Engineering and Earth Sciences in the School of Civil and Environmental Engineering and Earth Sciences.

Clemson University recently created the School of Civil and Environmental Engineering and Earth Sciences (SCEES) that houses the Glenn Department of Civil Engineering and the Department of Environmental Engineering and Earth Sciences (EEES). SCEES is home to nearly 60 faculty, 200 graduate students, and 575 undergraduates. The School has established and is growing expertise in the following four thematic areas: Smart City Service (managing risk and security); Resilient Communities (natural and technological disasters mitigation); Engineering the Surface and Subsurface (dry land, clean water, and water security); and Engineering the Earth's Ecosphere (air quality, greenhouse gas removal, managing solid and nuclear wastes). Further, the Glenn Department of Civil Engineering recently completed a 6-year grant from the National Science Foundation to revolutionize our engineering department. This grant has resulted in deeper connections between students, faculty and industry, as well as engagement with community on impactful projects, and created significant improvements in student professional development outcomes.

The successful candidate will have earned a Ph.D. in Biosystems Engineering or a related discipline. The successful candidate is expected to develop an impactful research program in an area of sustainable bioprocessing engineering, including biosystems engineering for food and agriculture, food process engineering, biological carbon sequestration, biorefinery engineering for biofuels/nutraceuticals/biomaterials, renewable/carbon-negative energy, carbon drawdown technologies, biological waste utilization, bioprocess modeling, biocomplexity, or biomimicry. Complimentary areas of research will also be considered. The candidate will recruit and advise students in Biosystems Engineering and related programs at the undergraduate (Honors) and graduate (MS and PhD) levels.

The successful candidate is also expected to support a culture of inclusive excellence and belonging; foster a vibrant teaching portfolio in Biosystems Engineering courses at the undergraduate and graduate levels; and engage and prepare students for successful and impactful careers in industry, government, or academia. Participation in activities that promote the Biosystems Engineering discipline will be encouraged.

Clemson University is an Affirmative Action/Equal Opportunity employer and does not discriminate against any individual or group of individuals on the basis of age, color, disability, gender, national origin, race, religion, sexual orientation, veteran status or genetic information.



Excellent opportunities exist for research and teaching collaboration with colleagues in the Program, Department, School and University, Information is available at:

www.clemson.edu/cecas/departments/ees/academics/undrgrad/be.html
www.clemson.edu/ees and www.clemson.edu/cecas/departments/cees

Applications received by November 8, 2024, will receive full consideration, with the review process continuing until the position is filled. Applicants should submit: 1) cover letter; 2) curriculum vitae; 3) statement of research interests; 4) statement of teaching interests/philosophy; 5) statement of inclusive excellence philosophy and execution; and 6) contact information for five references. All application materials must be submitted via Interfolio:

<http://apply.interfolio.com/156599>

or <http://www.clemson.edu/employment/FacultyCareers/positions.html>.

Please contact the Search Committee Chair, Dr. Christophe Darnault, cdarnau@clemson.edu, or Department Chair, Dr. Debora Rodrigues, dfrodri@clemson.edu for further information if needed.

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