



College of Engineering,
Forestry, and Natural Sciences

School of Informatics, Computing, and Cyber Systems

Assistant/Associate/Professor, Tenure-track, Multiple positions

The School of Informatics, Computing and Cyber Systems (SICCS) is a new and rapidly-growing academic unit at Northern Arizona University that brings together expertise in computer science, electrical engineering, eco/environmental informatics, and bio/health informatics. Our core mission is to integrate developing scientific and engineering knowledge around computation, data, and systems with traditional disciplines to drive breakthroughs that address key 21st-century challenges. Our faculty are shaping the School's ground-breaking research programs and the development of its innovative academic programs. They also have the opportunity to collaborate with researchers at institutes and centers across campus, including the Pathogen and Microbiome Institute, the Center for Bioengineering Innovation, the Merriam-Powell Center for Environmental Research, and the Center for Ecosystem Science and Society.

Exceptional candidates or coordinated group applications for highly desirable cluster hires in all areas of informatics, computation, and cyber systems are encouraged to apply. We are especially interested in candidates or clusters of candidates who are merging fundamental theory, concepts and approaches with interdisciplinary domain knowledge to address key societal challenges. Specific areas of interest include:

- Microelectronic systems and nanotechnologies, including microelectronic solutions for cybersecurity; chip design, modeling, simulation, and testing; and sensors and MEMS systems for the Internet of Things. We are particularly interested in candidates who have successfully collaborated with international microelectronic research entities and with leaders in industry.
- Heterogeneous and reconfigurable systems, including microarchitecture design and optimization for low power and/or high performance; hardware generation, software engineering methods, distributed systems, and applications to machine learning and artificial intelligence.
- Cyber-physical systems, including wireless and sensor/actuator networks, data-driven modeling, real-time control, and rigorous approaches to hardware and software testing, design, and verification, as well as applications such as energy and healthcare.
- Big Data, data science, supporting systems and architectures, and applications, including data mining, high-performance, networked, and cloud architectures, data visualization, computational linguistics, and computing in the humanities.

Candidates should have a Ph.D. or Sc.D. degree in Electrical Engineering, Computer Science, Informatics, or a field closely related to the above research areas at the time of appointment.

Candidates for Assistant Professor positions should demonstrate the potential for high-quality scholarship and candidates for Associate Professor and Professor positions are expected to have established themselves as innovative and productive scholars. Successful candidates will grow their independent externally funded research programs with the opportunity to engage in collaborations with a diverse body of researchers in SICCS and across NAU. Successful candidates will also participate in the development and support of our undergraduate and graduate curricular programs.

Minimum qualifications for the rank of Assistant Professor: Earned doctoral degree (Ph.D. or Sc.D.) conferred in Electrical Engineering, Computer Science, Informatics, or closely related field by August 20, 2018. Minimum qualifications for the rank of Associate Professor include all of the above, and: Associate Professor rank, (or experience as Assistant Professor meriting promotion to the rank of Associate Professor) and research and teaching experience in a university setting. Minimum qualifications for the rank of Professor include all of the above, and: Professor rank (or experience as Associate Professor meriting promotion to the rank of Professor) and research and teaching experience in a university setting.

Preferred qualifications include: Demonstrated expertise in one or more of microelectronics, heterogeneous and reconfigurable systems, cyber-physical systems, and Big Data and data science; strong record of scholarly productivity and promise for future excellence, as evidenced by scholarly publications appropriate to the rank sought; established record of an independently-funded research program and promise for future excellence, as evidenced by participation and leadership in securing extramural funding appropriate to the rank sought; demonstrated interest in engaging with and leading collaborative multi- and inter-disciplinary teams; university-level teaching and mentorship experience, particularly at the graduate level and including graduate students and post-doctoral scholars, appropriate to the rank sought; excellent communication skills; experience effectively working with people from a variety of culturally diverse backgrounds.

Salary is commensurate to qualifications and experience and determined by professional rank at hire. At the Assistant Professor rank, positions are tenure-track positions. At the Associate Professor and Professor ranks, positions may be tenured based on qualifications and experience as guided by unit/college criteria. All positions begin August 20, 2018. Review of applications will begin on August 1, 2017 and will continue until vacancy is filled or closed.

Northern Arizona University is a 29,000-student institution with its main campus in Flagstaff, a four-season community of about 70,000 at the base of the majestic San Francisco Peaks. NAU's emphasis on undergraduate education is enhanced by its graduate programs and research as well as distance learning. All faculty members are expected to promote student learning and help students achieve academic outcomes.

The School of Informatics, Computing, and Cyber Systems is a newly-formed research-intensive unit with diverse faculty members working in areas that span the foundations of computing as well as applications in engineering and science. Our faculty's research interests include cybersecurity, wireless sensor and communication systems, cyber-physical systems, software architecture and visualization, computer graphics, model-driven design, machine learning, wearable computing, bioinformatics, population health, remote sensing, and ecological modeling. We offer a broad range of degree offerings, including an interdisciplinary Ph.D. in Informatics and Computing, M.S.

degrees in Computer Science and Electrical Engineering, and undergraduate degrees in Computer Science (ABET-accredited), Applied Computer Science, and Electrical Engineering (ABET-accredited).

The university is committed to a diverse and civil working and learning environment. For information about diversity, access, and equity at NAU, see nau.edu/Center-for-University-Access-and-Inclusion/.

To apply for this position, go to <http://nau.edu/Human-Resources/Careers/Faculty-and-Administrator-Openings> under Job ID 603227. For consideration for this position submit a single PDF file, containing: (1) a statement of interest highlighting your particular qualifications for this position; (2) a curriculum vitae; (3) a statement of teaching and research interests, not to exceed 4 pages; and (4) names and contact information for three references.

If you have problems submitting application attachments in the form of one PDF document or questions, please contact us at informatics@nau.edu. If you need assistance completing your application, there are instructions available online at <http://hr.nau.edu> or in person in the Human Resources Department located in Building 91 on the NAU Campus - on the corner of Beaver and DuPont Streets.

If you are an individual with a disability and need reasonable accommodation to participate in the hiring process, please contact the Affirmative Action Office at 928-523-3312/TDD - 928-523-1006 or PO Box 4083, Flagstaff AZ 86011.

Northern Arizona University requires satisfactory results for the following: a criminal background investigation, an employment history verification and a degree verification (in some cases) prior to employment. You may also be required to complete a fingerprint background check. Additionally, NAU is required to participate in the federal E-Verify program that assists employers with verifying new employees' right to work in the United States.