

Northern Arizona University
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 rapidly-developing scientific knowledge around computation, data, and systems with traditional science and engineering disciplines to drive breakthroughs that address key 21st-century challenges. We have hired ten new faculty in the past year, and are searching for an additional eight faculty in the coming year. Our faculty will help shape 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 Center for Microbial Genetics and Genomics, 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 through two different searches. For both searches, 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.

In the first search (job ID 602746), specific areas of interest include:

- Cybersecurity, including trustworthy systems, data provenance, attack awareness, next-generation defensive measures, mobile and cloud security, and usable security;
- Heterogeneous and reconfigurable systems, including computational architectures and microarchitectures, hardware generation, software engineering methods, distributed and decentralized systems, virtualization, self-* systems and frameworks, and machine learning and inference;
- Cyber-physical systems, including large-scale wireless and sensor/actuator networks, decentralized architectures, and edge and ubiquitous computing;
- Big Data, data science, and supporting systems and architectures, including data mining, high-performance, networked, and cloud computing and storage, natural language processing, and data visualization.

In the second search (job ID 602745), specific areas of interest include:

- Health and bioinformatics, including quantitative epidemiology, functional genomics, comparative genomics, population genetics, genetics/epigenetics, microbial ecology, metagenomics, data analysis for high throughput and next-generation sequencing, molecular evolution, and diagnostics design.

Candidates should have a Ph.D. or Sc.D. degree in Computer Science, Informatics, Biology, Electrical Engineering, 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 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 Computer Science, Informatics, Electrical Engineering, or closely related field by August 2017. Minimum qualifications for the rank of Associate Professor include all of the above, and: Associate Professor rank and research and teaching experience in a university setting. Minimum qualifications for the rank of Professor include all of the above, and: Professor rank and research and teaching experience in a university setting.

Preferred qualifications include: Demonstrated expertise in one or more of cybersecurity, heterogeneous and reconfigurable systems, cyber-physical systems, Big Data and data science, health and/or bioinformatics; 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 interdisciplinary 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. This posting is for multiple full-time, 9-month positions. At the Assistant Professor rank, positions are tenure-track positions. At the Associate Professor rank, tenure will be considered based on qualifications and experience. At the Professor rank, positions will be tenured and will be considered based on qualifications and experience. All positions begin August 14, 2017. Review of applications will begin on September 20, 2016 and will continue until positions are filled.

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 university is committed to a diverse and civil working and learning environment.

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).

To apply for this position, go to <http://nau.edu/Human-Resources/Careers/Faculty-and-Administrator-Openings> under Job ID 602746 for cybersecurity, heterogeneous and reconfigurable systems, cyber-physical systems, and Big Data and data science areas and Job ID 602745 for health and bioinformatics areas. For consideration for either 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.