



OU IS HIRING THREE DATA SCIENCE FACULTY

As part of a multiyear effort to grow world-class data science and data-enabled research across The University of Oklahoma (OU), the Gallogly College of Engineering (GCoE), Department of Electrical and Computer Engineering and/or Department of Computer Science, in partnership with the Dodge Family College of Arts and Sciences (CAS), welcomes applications for a cluster of three (3) faculty positions from candidates whose experiences and interests have prepared them to be an integral contributor engaged in scientific discovery, developing talent, solving global challenges, and serving our society. This year we are focusing on data science foundational and enabling technologies. In subsequent years, we'll be hiring additional data science and data-enabled research faculty.

The University, as part of its Lead On, University strategic plan has committed to creating world-class capabilities in data science, artificial intelligence (AI), machine learning (ML), and data-enabled research. In July 2020, the University established the Data Institute for Societal Challenges (DISC) to grow convergent data-enabled research to solve global challenges. DISC currently has over 130 faculty members across OU campuses, nine communities of practice, seed funding programs, and an extended network of approximately 300 data scientists and data-enabled researchers across many disciplines (<https://www.ou.edu/disc>).

Professor or Associate Professor in Human-Computer Teaming and Interactive Decision Making

Humans and computers have complementary knowledge and skillsets. To solve challenging problems, we need to team this expertise together for effectiveness, reliability, efficiency, and adoption of many data-driven solutions. This area is cross-disciplinary, and we seek a senior faculty member with expertise in one or more of human-computer teaming, visualization, visual analytics, human-machine interaction, decision theory, HCI, human factors and industrial engineering, or cognitive psychology. This faculty member will be a vital core team member in data science and data-driven decision making with a home department in ECE and possible joint appoint in ISE, Computer Science, Psychology, and/or Political Science.

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Assistant Professor in AI Architectures

We seek to recruit a transdisciplinary faculty member with expertise in one or more of the following areas: scalable, high-performance software and hardware architectures for AI and advanced analytics, advanced and domain-tailored data science, AI (trustable, science-based, and human-guided), and human-computer teaming. Specific areas of interest include probabilistic, neuromorphic, and novel architectures, software pipelines and operating system architectures to support high-performance analytics, and enable real-time trustable AI and decision-making. Since traditional computing architectures are still based on solving problems from the 20th century, new computing hardware and software architectures are needed to optimize computing for AI and machine learning and many new approaches to science and engineering. This faculty member will grow and complement work in computer engineering, computer science and the new OU quantum center (CQRT) with a home department in ECE and possible joint appointments where appropriate.

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Assistant Professor in Trustable AI

We are seeking an Assistant Professor in Trustable AI. Human-guided, science-based, explainable AI (xAI) are key areas to ensure AI is understandable, reliable, and robust for real-world applications. This faculty member will grow our expertise in one of the most rapidly developing and vital fields of data science, with a primary home in ECE and potentially joint appointments in CS, Psychology, and ISE. We seek a faculty member with expertise in one or more of science-based AI or machine learning (ML), human-guided AI/ML, explainable AI/ML, and closely related topics. This faculty member will be a vital core team member in data science, AI, and data-driven convergent research solutions to global challenges. This faculty member will provide vital capabilities that will empower research in all four strategic verticals and grow the data science ecosystem on campus to create the critical mass in data science needed for the success of the university's strategic plan, Lead On, University.

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OU.EDU/DISC

DISC IS NOW HIRING POSTDOC RESEARCHERS

We invite applications for two postdoctoral researchers in visual analytics, data science, machine learning, trustable AI, social media analytics, and big data analytics across a wide spectrum of application areas.

We are the OU Data Science Institute for Societal Challenges (DISC Center). The DISC Center is a campus-wide institute in the Vice President for Research and Partnerships office. Our mission is to empower transdisciplinary research and collaboration to drive convergent solutions to societal challenges in Oklahoma, the nation, and the world through data science research, tools and capabilities.

The Data Institute for Societal Challenges convenes diverse teams to collaborate to solve some of the world's most pressing problems and achieve a lasting societal impact. These communities are:

- **Foundational Data Science**
- **Community and Societal Transformation**
- **The Future of Health**
- **Environment, Energy, and Sustainability**
- **Aerospace, Defense and Global Security**

DISC works closely with local and international collaborators, including social media experts, sustainability experts, agricultural producers, health and public safety researchers, economists, first responders, computational scientists, businesses, and researchers in science, engineering, and economics.

Both beginning and senior postdoctoral candidates are encouraged to apply. Excellent oral and written communication skills are mandatory.

For more information, please send your CV and a one-page research statement to Dr. David Ebert (ebert@ou.edu) or Dr. Gopichandh Danala (danala@ou.edu). Applications will be reviewed on a rolling basis until the positions are filled.

