North Carolina Agricultural and Technical State University
Department of Industrial and Systems Engineering

About the Department

The Department of Industrial and Systems Engineering (ISE) at North Carolina Agricultural and Technical State University (NCAT), located in Greensboro, NC, invites applications for two tenure track faculty positions at the rank of Assistant/Associate Professor. The Department offers ABET- and SACS-accredited programs, ranked by U.S. News and World Report, and awards degrees in industrial and systems engineering at the BS, MS, and PhD levels. NCAT has earned two Carnegie Foundation classifications: (1.) Doctoral/Research University; and (2.) Community Engagement. More information can be found at: https://www.ncat.edu/coe/departments/ise/index.php

About the Position

The search is for candidates at the interface of data science/machine learning and industrial engineering, operations research, and management science, including optimization, statistical learning, computational social science, healthcare, logistics, and operations.

We are specifically looking for candidates with strength in systems engineering, interface of data science/machine learning, and operations research, including optimization advanced statistical learning with applications of big data analytics, AI, and Machine Learning in modeling complex (infrastructure) systems, simulation, and risk and reliability analysis, healthcare, logistics, and operations. Skills and research interests in one or more of the following areas are desired: model-based systems engineering, optimization, statistical and probabilistic modeling, prognostic health management, big data integration (data fusion) of heterogenous data, data visualization and simulation, and big data in complex infrastructure systems. Experience in large scale optimization, model-based systems engineering, data analytics (including heterogeneous longitudinal and time-event data), artificial intelligence, and machine learning with applications in cyber-physical systems, large smart infrastructure systems (such as energy, logistics, urban transit, etc.), and military applications is highly preferred.

The successful candidate will be expected to: (i) establish and sustain a strong externally-funded research program in Industrial and Systems Engineering; (ii) produce an excellent record of scholarly publication; (iii) incorporate modern pedagogical skills in teaching undergraduate and graduate courses; (iv) supervise and support MS and PhD students; and (vi provide service to the university and its units, to the state, regional and national communities, as well as to the appropriate professional organizations.

The successful candidate will have an opportunity to participate in emerging research collaborations across campus on cybersecurity and resilience, energy and sustainability, healthcare applications, complex systems and networks, and data analytics with applications in cyber-physical systems or large infrastructure systems;

How to Apply

Applicants should submit application electronically containing Cover Letter, Curriculum Vitae, Teaching Philosophy, Research Statement and Transcripts Copies of Bachelor, Master and Ph.D. Degrees. Names and contact information for at least three (no more than five) professional references should be submitted too. Review of applications will begin on March 1, 2024, and applications will be accepted until the position is filled. The expected date for the appointments will be Aug 15, 2024. All applications need to be submitted via the link: https://jobs.ncat.edu/postings/31405. For any other information, please feel free to contact the department search committee chair Dr. Om Prakash Yadav via oyadav@ncat.edu.

EEO/AA Policy: N.C. A&T does not discriminate against any person on the basis of age, color, disability, gender identity, genetic information, national origin, race, religion, sex, sexual orientation, veteran status, or any other basis protected by law. For inquiries regarding non-discrimination policies, contact the Title IX Coordinator at titleixcoordinator@ncat.edu.