

Edward P. Fitts Department of Industrial and Systems Engineering North Carolina State University

The Fitts Department of Industrial and Systems Engineering (ISE) at NC State strives to improve society through research and education related to health and human systems, data analytics and optimization, supply chain and logistics engineering, and advanced manufacturing. The ISE community includes more than 25 faculty, 10 core staff, 300 undergraduate students, 200 graduate students, and others affiliated with connected centers and degrees, where we work together in a collaborative, diverse, and collegial environment. ISE is based in Raleigh, NC, which was recently named #2 Best Places to Live by US News and World Report, with proximity to urban areas, beaches, mountains, great restaurants, cultural activities, and more.

The faculty in ISE at NC State invite applications for one or more tenure-track faculty positions. It is anticipated that at least one position is at the assistant professor level, although applicants may be considered for appointment at Associate/Full rank based on experience. Candidates are expected to have a PhD degree in Industrial Engineering or a related field. **Applications will be considered in any area related to ISE including interdisciplinary ones with additional interests as outlined.** We are especially seeking applicants with expertise in (i) Next-generation manufacturing with specialization in areas including Automation & Robotics and Digital & Smart Manufacturing; (ii) optimization or data science (methodologically strong; any applications can relate broadly to ISE); (iii) expertise in data science with focus in regenerative medicine, biomanufacturing, genomics or closely related life sciences areas; or (iv) emerging or traditional areas of ISE including artificial intelligence, interface of health and environment, sustainability and supply chains, humans and technology, health analytics, or others. We are particularly interested in candidates who have demonstrated experience engaging with diversity such as fostering an inclusive environment, working with students from diverse backgrounds, or incorporating diverse perspectives in research.

The expected start date is Fall 2023. Salary will be competitive based on qualifications. Teaching responsibilities will include graduate and undergraduate instruction as well as supervision of graduate student research. Applicants will be expected to develop a sponsored research program. General research responsibilities for faculty include a commitment to original and independent work and pursuing interdisciplinary collaborations, both within and external to NC State.

In ISE, innovative research is conducted within and across areas including Advanced and Biomedical Manufacturing; Health Systems; Human Systems; Supply Chain and Logistics; and Systems Analytics and Optimization along with interdisciplinary collaborations across the university and beyond. In addition to degrees in ISE, the department leads a Master's in Engineering Management degree (<https://mem.grad.ncsu.edu>), collaborates on graduate degrees in Operations Research (www.or.ncsu.edu), and supports the Integrated Manufacturing Systems Engineering (www.imsei.ncsu.edu) Master's degree. The department houses two state funded centers, including the Center for Additive Manufacturing and Logistics (camal.ncsu.edu), which is one of the most advanced manufacturing and 3D printing laboratories in the country, and The Ergonomics Center of North Carolina (www.theergonomicscenter.com), which is the only center of its kind at a U.S. public research institution. The department is supported by world-class laboratory facilities for computing, manufacturing, and human-systems research, enhanced by a recent move to the new Fitts-Woolard Hall, located on NC State's Centennial Campus near the award-winning Hunt Library and numerous industry and governmental facilities. Our faculty are internationally renowned in their fields, and they have extensive collaborations with other departments, universities, medical schools, and other external partners. NC State students 'think and do' with active learning on real-life problems across the entire ISE discipline, and our students become leaders in academia, industry, and government. NC State engineering is expanding, with up to 40% growth in faculty, staff, undergraduate, and graduate students expected over the coming years.

Please submit a cover letter, CV, research and teaching statements, diversity statement, and the names and contact information for three (3) professional references online at <https://jobs.ncsu.edu/postings/171434>. Your cover letter should clearly identify your research area(s). In your diversity statement you may detail how your teaching, service and/or scholarship has supported the success of students from racial, ethnic, and gender backgrounds that are underrepresented in the academic field; applicants who have not yet had relevant experiences should note how their work will further NC State's commitment to diversity and its mission as a land grant university. Review of applications will begin by November 1, 2022, and they will continue until the position(s) is filled.

NC State University is an equal opportunity and affirmative action employer. All qualified applicants will receive consideration for employment without regard to race, color, national origin, religion, sex, gender identity, age, sexual orientation, genetic information, status as an individual with a disability, or status as a protected veteran.

Individuals with disabilities requiring disability-related accommodations in the application and interview process, please call 919-515-3148. Final candidates are subject to criminal & sex offender background checks. Some vacancies also require credit or motor vehicle checks. If highest degree is from an institution outside of the U.S., final candidates are required to have their degree verified at www.wes.org. Degree must be obtained prior to start date. NC State University participates in E-Verify. Federal law requires all employers to verify the identity and employment eligibility of all persons hired to work in the United States.