

Job Prospectus for the
Department Head
Edward P. Fitts Department of
Industrial and Systems Engineering



Raleigh, NC
Fall 2016

NC STATE UNIVERSITY

THE OPPORTUNITY

North Carolina State University (NC State) invites applications and nominations for the position of Department Head of the Edward P. Fitts Department of Industrial and Systems Engineering. The Department Head will hold the rank of Professor with tenure and provide energetic and visionary leadership to a department with very high expectations and goals in the areas of teaching, research and service. He/she will report to the Dean and oversee all academic, administrative, and budgetary matters for the Department, and will represent the Department to the College, University Administration, and external groups and stakeholders.

The Department Head will also be expected to:

- Proactively lead departmental academic, research and outreach activities in the context of a broad vision of industrial and systems engineering;
- Promote an inclusive and welcoming environment with a strong commitment to recruiting and retaining diverse students, faculty, and staff;
- Support faculty development; promote, recognize, and reward faculty research, excellence in teaching and mentoring, and excellence in outreach;
- Create high expectations among faculty regarding student success; provide programs and opportunities for students to develop research and leadership skills;
- Effectively link programs within the department to the broader college and university mission; foster a culture of high-impact interdisciplinary collaboration in research, teaching and service within the College and across the University;
- Provide leadership in advancing departmental and College academic excellence within the university as well as relative to peer institutions;
- Engage alumni, industry, and other potential supporters; participate in increasing understanding and support for the College as a contributor to the well-being of the state, nation, and world; and
- Respect and adhere to university policies and the principles of fiduciary responsibility and stewardship of resources.

ABOUT THE DEPARTMENT

The Edward P. Fitts Department of Industrial and Systems Engineering (ISE) at NC State is one of only five named industrial and systems engineering departments in the United States and is consistently ranked among the top programs in the country. The Department has a rich and diverse research portfolio organized into six (6) major areas: (1) advanced manufacturing, (2) biomedical manufacturing, (3) health systems engineering, (4) human-systems engineering, (5) production, logistics and service systems and (6) systems analysis and optimization. The mission of the Department is to educate students in a broad range of areas including: product, process and systems engineering; physical and engineering sciences; and mathematics and analytics necessary for the successful practice of industrial engineering.

The Department has 31 full-time faculty with eight named and distinguished professors, a number of joint and affiliated faculty, 325 undergraduates and 240 graduate students. ISE remains the #1 ranked NC State Engineering discipline for overall student satisfaction, and is one of the College's most popular degree choices. Last year's ISE graduates saw a 93% career placement. Annual research expenditures are approximately \$8 million. ISE houses two state funded centers, the Ergonomics Center of North Carolina and the Center for Additive Manufacturing and Logistics, each epitomizing the service and extension mission of the university. The strategic initiatives and centers are extensions of the Department's above-mentioned areas of expertise, and are supported by world-class laboratory facilities, including: manufacturing processes, automation, metrology, tissue engineering, and physical and cognitive ergonomics labs.

The ISE Department is currently planning its new building, EB Oval which will be located next to the Hunt Library on Centennial campus. This building will be approximately 220,000 gross square feet, and will house ISE, Civil & Environmental Engineering, the Integrated Manufacturing Systems Engineering Institute, the Operations Research Program and the Dean's Office. In addition, two ISE centers will be located in EB Oval – the Ergonomics Center of North Carolina and Center for Additive Manufacturing and Logistics. The building will contain state-of-the-art collaborations spaces and laboratories for advanced manufacturing, ergonomics, healthcare engineering, computation and visualization. Construction will begin in the next fiscal year, with an expected completion date of 2020.

ABOUT THE COLLEGE OF ENGINEERING

The College of Engineering at NC State is one of the world's finest engineering and computer science schools dedicated to creating an environment in which both faculty and students can excel. Our highly ranked College educates more than 10,000 undergraduate and graduate students, and is one of the largest colleges in the UNC system, supporting 18 bachelor's, 21 master's and 13 doctoral degree programs.

In academic departments, state-of-the-art laboratories and research centers, faculty and students, undergraduates and graduates alike, engage in vital areas of research and technology transfer, pursuing some of the most important education initiatives and engineering research of our time in energy, health care, computer systems, nanotechnology and other important and emerging fields. Our extension and outreach programs share the fruits of many of those initiatives and research with the community.

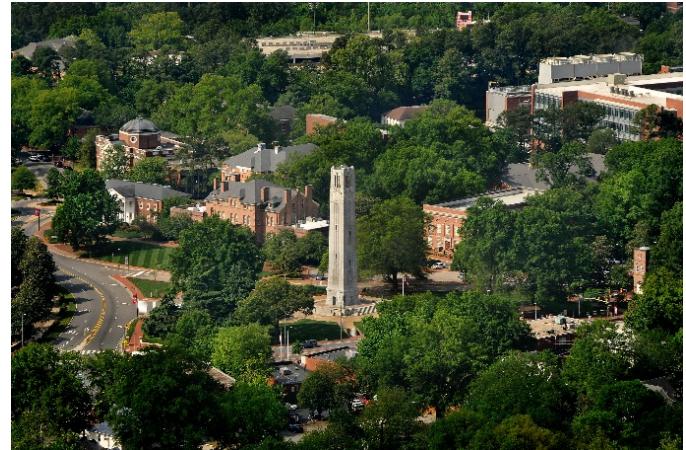
The College's commitment to excellence is evidenced by the success of our faculty and students. Each year, both faculty and students receive numerous scholarly and professional awards for their teaching and technological achievements, and our graduates find top-notch careers in research and development, design, production and management. Many of our 57,700 alumni hold leadership positions in government, and both private and public sector institutions around the world. Central to much of the College's academic, research and entrepreneurial activities is the innovative Centennial Campus; a model for university campuses everywhere. Located on a 1,334-acre site adjacent to NC State's main campus, Centennial is home to more than 130 companies, government agencies, NC State research and academic units and the state-of-the-art James B. Hunt Jr. Library. More than 2,200 corporate and government employees work at the campus



alongside more than 3,400 faculty, staff and students. The College's presence is cast across three dedicated buildings housing six departments, the Monteith Engineering Research Center, the Golden LEAF Biomanufacturing Training and Education Center, the Constructed Facilities Laboratory, the FREEDM System Center, which is in the Keystone Science Center and the ASSIST Center. Centennial Campus puts academic buildings in close proximity to companies such as ABB, LexisNexis and Juniper Networks, providing an environment where students and faculty collaborate with industry and government agencies.

ABOUT NC STATE

NC State was founded with a purpose: to create economic, societal and intellectual prosperity for the people of North Carolina and the country. We began as a [land-grant institution](#) teaching the agricultural and mechanical arts. Today, NC State is a **pre-eminent research and teaching leader** that excels in science, technology, engineering, math, design, humanities and social sciences, textiles and veterinary medicine. NC State students, faculty and staff take problems in hand and **work with industry, government and nonprofit partners** to solve them.



Our 34,000-plus high-performing students apply what they learn in the real world by conducting research, working in internships and co-ops, and performing acts of world-changing service. That experiential education ensures they leave here ready to lead the workforce, confident in the knowledge that NC State consistently rates as **one of the best values in higher education**.

Whether it's [Princeton Review](#) ranking NC State among the nation's best values for universities or one of 81 nationwide "Colleges with a Conscience," NC State has a lot to be proud of. And Princeton Review is not alone. [Kiplinger's Personal Finance ranked NC State University 12th](#) and U.S. News & World Report ranked the university among the top 10 best values in public higher education.

ABOUT RALEIGH AND THE RESEARCH TRIANGLE

NC State is located in one of the fastest-growing urban centers in America. A top spot for young professionals and families, Raleigh is nationally recognized as **a city on the rise**:

- No. 1 among the best places for business and careers ([Forbes, 2014](#))
- No. 1 among U.S. cities attracting the most families ([Forbes, 2014](#))
- No. 2 among America's 15 best cities for young professionals ([Forbes, 2014](#))
- No. 3 among the best midsize U.S. metro areas for college students ([American Institute for Economic Research, 2014](#))



With Durham and Chapel Hill, Raleigh anchors the Research Triangle, **a national hotspot for high-tech enterprise**. The top companies in the region — including IBM, Cisco Systems, SAS Institute, Biogen Idec and GlaxoSmithKline — are among the country's best employers. They also lead the way in hiring new NC State graduates. Celebrating its 130th year in 2017, NC State continues to make its founding purpose a reality. Every day, our [career-ready graduates](#) and world-leading faculty make the fruits of learning and discovery available to people across the state, throughout the nation and around the world.

SEARCH SPECIFICS

Requirements and Preferences

The Department is seeking an outstanding individual who will be expected to have a strong commitment to academic and research excellence commensurate with the expectations of a major research university. Candidates shall possess a doctoral degree in industrial and/or systems engineering or a related field and credentials to be appointed at the rank of Professor with tenure in the department. The successful candidate will possess an outstanding record of research, teaching, administrative and leadership accomplishments along with a strong record of commitment to human and intellectual diversity.

Candidates should have experience and demonstrable skills in leading and managing programs, people, and positive change in environments similar to those found within research extensive universities. He/she must have a track record of working effectively with faculty, students, staff, administration, industry and departmental partners, and funding agencies. Excellent communication and interpersonal skills are essential to success.

How to Apply

The Nomination Committee invites applications (including CV, cover letter, and contact information for at least three (3) professional references) to be submitted online at <https://jobs.ncsu.edu/> (position number 00100048) or to NC State Executive Search. Confidential review of materials will begin in December and continue until the appointment is made. It is preferred, however that all nominations and applications be submitted prior to January 20, 2017. Further information can be found at ess.hr.ncsu.edu/current-searches. Please refer all inquiries to:

Frank Barragan
Executive Recruiter and Search Consultant
NC State Executive Search
(919) 515-4365
fbarrag@ncsu.edu

For Further Information, Visit:

[Edward P. Fitts Department of Industrial & Systems Engineering](#)

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