Manufacturing Faculty Position
University of North Carolina at Charlotte

Job Title	Manufacturing Faculty Position
Department	Mechanical Engineering and Engineering Science
Institution	University of North Carolina at Charlotte Charlotte, North Carolina
Date Posted	Dec. 22, 2025
Application Deadline	Open until filled
Position Start Date	August 2026
Job Categories	Assistant Professor Associate Professor
Academic Field(s)	Mechatronics Mechanical Engineering
Apply Online Here	https://jobs.charlotte.edu/postings/65568
Apply By Email	
Job Description	

Manufacturing Faculty Position

Mechanical Engineering and Engineering Science

Overview

The Department of Mechanical Engineering and Engineering Science at the University of North Carolina at Charlotte is currently seeking exceptionally quali?ed candidates for a 9-month tenure-track faculty position (003755) at the rank of Assistant or Associate Professor with expertise and research interests in precision engineering for advanced manufacturing systems, and an expected start date of August 2026. Speci?c areas of interest include, but are not limited to: precision mechatronics and

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controls for machine design and intelligent manufacturing systems, precision metrology for micro/nanoscale structures such as semiconductors, quantum devices, packaging, and bio-interfaces, fast in-situ metrology and inspection techniques with special interest in optical-based approaches for extreme environments (high temperature, high radiation ?elds, zero gravity, etc.), and AI-enabled metrology, control, and manufacturing for autonomous and sustainable systems.

The Department of Mechanical Engineering and Engineering Science (MEES) is the largest department within the William States Lee College of Engineering, sta?ed by 51 full-time faculty members and 15 sta? members who serve over 1,600 undergraduate and graduate students. There are six active NSF CAREER awardees, and several faculty are recognized as Fellows of leading professional societies. The MEES department is internationally recognized for research programs in advanced manufacturing, precision metrology, battery research, motorsports/automotive engineering, energy, aerospace, and bioengineering. The Department is home to the Center for Precision Metrology (CPM), the Battery Complexity, Autonomous Vehicle and Electri?cation Research Center (BATT CAVE) and has strong affiliations with the Center for Freeform Optics (CeFO), and the Center for Optoelectronics and Optical Communications. The College of Engineering is leading initiatives in several areas of strategic research focus for the university, including Advanced Manufacturing and Metrology, Transformational Energy, Transportation and Advanced Mobility, and Smart and Sustainable Cities.

Applicants must hold a Ph.D. in Mechanical Engineering or a closely related ?eld by the time of appointment. Applicants should be committed to teaching at the undergraduate and graduate levels. It is expected that the successful candidate will build strong collaborations with industry partners and national laboratories, publish in leading research journals, and establish a strong externally-funded research program. Applicants should also be committed to supervising undergraduate capstone projects and graduate theses and dissertations. Priority will be given to candidates with strong research records, corresponding to the rank of appointment, as evidenced by peer-reviewed publications, externally funded research, and a plan for future research that aligns with the university's and department's research focus in this area.

Application Documents

Applicants are required to submit the following documents for Position 003755

1. One-page letter of interest.
2. Curriculum Vitae.

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3. Research statement (up to three pages) detailing areas of expertise and research vision.
4. Teaching statement (up to two pages).
5. Contact information for at least three references.

About Charlotte and UNC Charlotte

UNC Charlotte, with more than 32,000 students, is a top-tier, urban R1 research university. The University is recognized for its research excellence, innovation, and student achievement that drive progress across North Carolina, the Southeastern region, and the United States. Driven by a spirit of innovation and discovery, UNC Charlotte serves as a center of research excellence that advances knowledge in areas such as advanced manufacturing, arti?cial intelligence, advanced materials, sustainability, energy, health, and urban systems—addressing challenges that shape the future of our world. The campus is located on a 1000-acre wooded campus in the University City neighborhood of Charlotte.

The Charlotte metro area is centrally located in North Carolina's Piedmont region, with a population of nearly three million. It is one of the fastest-growing large cities in the United States, attracting highly educated professionals and research partnerships in the ?eld of energy, advanced manufacturing, transportation, and ?nancial technology. Eight Fortune 500 are headquartered in the Charlotte region, including Honeywell, Duke Energy, and Siemens. The Charlotte airport is a major international hub and o?ers direct ?ights to most cities in the US and major destinations abroad. Charlotte o?
ers a vibrant blend of professional sports, arts and culture, outdoor adventure, and career opportunities—making it a top destination to live. The city o?ers a mix of urban and natural amenities, featuring both a lively uptown area and numerous hiking trails. Within a three-hour drive, many enjoy the beautiful Great Smoky Mountains or the exciting shores of the Atlantic Ocean. Charlotte is consistently ranked among the best places to live in the country.

Learn More

Interested applicants are encouraged to review the program's website or contact the chair of the Search Committee Professor Brigid Mullany (bamullan@charlotte.edu), with further questions. Please review the full job description atjobs.charlotte.edu for additional information, expectations, and requirements.

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Interviews are expected to begin in January 2026 and will continue until the position is ?lled. The candidate selected for this position will be required to provide an o?cial transcript of their highest degree earned, and will be subject to a criminal background check.

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact

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