

Open Rank Tenure Track Faculty Positions in Advanced
Manufacturing and Mechanical Engineering
University of North Carolina at Charlotte

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Posted Nov. 23, 2022, set to expire Mar. 25, 2023

Job Title	Open Rank Tenure Track Faculty Positions in Advanced Manufacturing and Mechanical Engineering
Department	Department of Mechanical Engineering and Engineering Science
Institution	University of North Carolina at Charlotte Charlotte, North Carolina
Date Posted	Nov. 23, 2022
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Assistant Professor Associate Professor Professor
Academic Field(s)	Mechanical Engineering Manufacturing & Quality Engineering
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Job Description	

**OpenRankTenureTrackFacultyPositionsInAdvancedManufacturingand Mechanical Engineering
Department of Mechanical Engineering and Engineering Science
Positions #004432, 004440, 003755, 003796, 004490**

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The Department of Mechanical Engineering and Engineering Science at the University of North Carolina at Charlotte has multiple tenured/tenure-track faculty positions at all levels (assistant/associate/full). Candidates are sought who either strengthen existing areas of advanced manufacturing, precision metrology, and computational mechanics expertise or extend that expertise to new and emerging areas. Current activities encompass additive and subtractive manufacturing, associated multiscale process modeling, dimensional metrology, and the design of machines, instruments and software for advanced manufacturing capabilities. While not limited to the following, application areas of interest include: optics manufacturing and metrology (freeform optics, diamond turning, etc.), traditional and emerging technologies for energy harvesting and conversion (fuel cells, hydrogen fuel and combustion etc.), biomedical manufacturing, decarbonization of manufacturing processes (improved efficiency and alternative processing routes), and manufacturing processes for decarbonization of energy systems (processing of high temperature alloys and ceramics, and material processing for energy conversion/storage systems). Relevant areas of expertise include manufacturing processes, material process-structure-property relationships, metrology, engineering mechanics, integrated process modeling, and supporting advanced data analytics. Strong candidates in other areas of mechanical engineering will also be given due consideration.

UNC Charlotte is well known for the breadth and strength of its advanced manufacturing and metrology research group. There is also an emerging strength in advanced battery technologies. The Department of Mechanical Engineering and Engineering Science provides access to state-of-the-art research facilities, including world-class metrology tools and extensive precision engineering production equipment. The Department is home to the internationally recognized Center for Precision Metrology, has strong participation in the College's Energy Production and Infrastructure Center (EPIC), with the University's Center for Freeform Optics (CeFO), and the School of Data Science. A strong candidate is expected to interact with some of these centers and other industry partners.

Applicants must hold a Ph.D. degree in Mechanical/Mechatronics/Aerospace/Materials Engineering, Physics, or another closely related field and have a background in existing areas of metrology, manufacturing processes, mechanics or modeling. In addition, they must demonstrate significant accomplishments or outstanding potential in scholarship, teaching, and research, depending on the rank of appointment. Successful candidates are expected to: 1) develop and sustain nationally and internationally recognized, externally funded research programs as evidenced by high-quality publications and successful mentoring of students; 2) contribute to teaching and curriculum development at both the graduate and undergraduate levels; and 3) contribute to diversity initiatives at the University.

These positions will remain open until filled.



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As an EOE/AA employer and an ADVANCE Institution that strives to create an academic climate in which the dignity of all individuals is respected and maintained, the University of North Carolina at Charlotte encourages applications from all underrepresented groups. All finalists are subject to criminal background checks.

For full consideration, please submit an online application/profile at <https://jobs.uncc.edu> positions# 004432, 004440, 003755, 003796, 004490 or <https://jobs.charlotte.edu/postings/46651>

Contact Information

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

Contact