

PostDoc and Multiple PhD Positions University of Tennessee Chattanooga

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Posted Oct. 27, 2025, set to expire Feb. 26, 2026

Job Title	PostDoc and Multiple PhD Positions
Department	Mechanical Engineering
Institution	University of Tennessee Chattanooga Chattanooga , Tennessee
Date Posted	Oct. 27, 2025
Application Deadline	Dec. 1, 2025
Position Start Date	Available immediately
Job Categories	Graduate Student Post-Doc
Academic Field(s)	Mechanical Engineering Material/Metallurgy Engineering Mechanics Computer Engineering Aerospace/Aeronautical/Astronautics

Apply By Email

Job Description

Multiple graduate research assistant openings are available in the Micro/nano- Engineering Laboratory at University of Tennessee Chattanooga. The positions are for Ph.D. in Computational Engineering. Projects are in collaboration with Oak Ridge National Laboratories and supported by National Science Foundation. Students interested in fluid dynamics, heat transfer, material science, nanoscale transport phenomena, molecular dynamics, density functional theory, surface chemistry, transition state search, material science, or molecular and interfacial phenomena are welcome to apply. Prior experience in computational work and programming skills are valued.

If interested, send your resume and transcript to utc.nanoengineering@gmail.com. These

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positions come with full funding, including stipend, health care, and tuition waiver.

Postdoctoral Research Fellow - Multiscale Material Modelling and Design

Location: University of Tennessee Chattanooga

Duration: Three-year contract, renewable for up to 5 years

Start Date: immediately

Position Overview: Micro/nano-Engineering Laboratory at University of Tennessee Chattanooga is seeking a motivated and innovative Postdoctoral Research Fellow to join our team in development of accurate characterizations and discoveries for nanomaterial with customizable properties. The successful candidate will work on multiphysics and multiscale simulations, and machine learning guided design and experiments of functional nanomaterials for energy, bioengineering and defense applications.

Key Responsibilities:

- Develop and implement multiscale simulation models, machine learning guided design, and experimental characterization.
- Analyze and interpret data, and prepare results for publication in peer-reviewed journals.
- Present findings at conferences and contribute to proposals for external funding.
- Mentor undergraduate and/or graduate students.

Preferred Qualifications:

- A Ph.D. in Mechanical Engineering, Materials Science, Chemistry, or related discipline.
- Experience with one or more areas: density functional theory, molecular dynamics, computational fluid dynamics, computational solid mechanics, high-performance computing and nanoporous materials characterization.
- A track record of peer-reviewed publications in reputable journals.
- Excellent written and verbal communication skills.
- Ability to work collaboratively in a multidisciplinary research environment.
- Interest in mentoring and outreach activities.

What We Offer:

- Access to state-of-the-art facilities and resources, including HPC clusters and advanced

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microscopy facilities.

- Collaboration opportunities with leading experts, including partners at Oak Ridge National Laboratory, and Department of Energy.
- A supportive and dynamic research environment with opportunities for professional development.

Application Instructions:

Interested candidates should submit the following documents in a single PDF:

1. A cover letter summarizing research interests and career goals.
2. A detailed CV, including a list of publications.
3. Contact information for three references.

Submit Applications To: utc.nanoengineering@gmail.com

Contact Information

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

Contact Murat Barisik
Mechanical Engineering
University of Tennessee Chattanooga
Chattanooga, TN

Contact E-mail utc.nanoengineering@gmail.com