

Associate or Professor and Torley Endowed Chair in  
Materials Engineering - Department of Mechanical and  
Aerospace Engineering  
University of Dayton

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Posted Mar. 12, 2025, set to expire Apr. 6, 2025

<b>Job Title</b>	Associate or Professor and Torley Endowed Chair in Materials Engineering - Department of Mechanical and Aerospace Engineering
<b>Department</b>	School of Engineering <a href="https://udayton.edu/engineering/">https://udayton.edu/engineering/</a>
<b>Institution</b>	University of Dayton Dayton, Ohio
<b>Date Posted</b>	Mar. 12, 2025
<b>Application Deadline</b>	Apr. 6, 2025
<b>Position Start Date</b>	Aug. 16, 2025
<b>Job Categories</b>	Associate Professor Professor Endowed/Distinguished Professor
<b>Academic Field(s)</b>	Mechanical Engineering Material/Metallurgy
<b>Apply Online Here</b>	<a href="https://employment.udayton.edu/en-us/job/502650/associate-or-professor-and-torley-endowed-chair-in-materials-engineering-department-of-mechanical-and-aerospace-engineering">https://employment.udayton.edu/en-us/job/502650/associate-or-professor-and-torley-endowed-chair-in-materials-engineering-department-of-mechanical-and-aerospace-engineering</a>

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**Job Description**

The University of Dayton (UD) Department of Mechanical and Aerospace Engineering (MAE) invites applications for the tenured position of Associate Professor or Professor to fill the prestigious Torley Endowed Chair (one position) in Materials Engineering beginning August 16, 2025. This prestigious

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position affords the opportunity to lead advancements in materials, mechanics, and structures and to join an active and diverse research community at the University of Dayton. Furthermore, you will have the exciting opportunity to shape the future of our engineering students.

The Torley Endowed Chair in Materials Engineering supports engineering education and research in the areas of materials, mechanics, and structures. This position offers a unique opportunity to contribute to advancements in areas such as topology optimization, mechanics of materials in extreme environments (e.g., temperatures, pressures, strain rates), emerging materials (e.g., active/functional, self-healing, additively manufactured), metamaterials and architected materials, advanced composites, multiscale and multiphysics modeling, predictive simulations of advanced manufacturing processes and the application of machine learning to enhance and guide physics-based computations and experiments. Research goals linked to aerospace applications are particularly relevant, as are approaches that holistically involve theory, computations, and experiments.

The successful candidate will bring significant experience and accomplishments and build a network of collaborators and a robust research portfolio. They will engage students at the undergraduate and graduate levels by teaching courses in the Mechanical & Aerospace Engineering (MAE) Department. The focus of these courses may include materials, mechanics, or aerospace applications of materials.

The successful candidate is expected to engage in externally sponsored research and collaborate within the department, across the university, and externally. The Dayton area offers unique opportunities for engineering faculty to collaborate with researchers at the Air Force Research Laboratory located at Wright-Patterson AFB, the University of Dayton Research Institute (UDRI), and industry partners. The Torley Endowed Chair is expected to function as a full member of the department by attending departmental faculty meetings, mentoring graduate and undergraduate students, and interacting with other department members.

### **EEO/AA Policy**

Informed by its Catholic and Marianist mission, the University is committed to the principles of diversity, equity, and inclusion. Informed by this commitment, we seek to increase diversity, achieve equitable outcomes, and model inclusion across our campus community. As an Affirmative Action and Equal Opportunity Employer, we will not discriminate against minorities, women, protected veterans, individuals with disabilities, or on the basis of age, race, color, national origin, religion, sex, sexual orientation or gender identity. The University is also pleased to provide support for spouses of



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prospective and newly hired faculty through its dual career program. While we cannot guarantee placement, we serve as an effective resource and support system for your spouse. Information can be found at <https://udayton.edu/hr/dual-career-resources.php>

### Contact Information

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

### Contact

School of Engineering  
University of Dayton  
Dayton, OH