

Assistant/Associate/Full Professor in Mechanical
Engineering (Materials for Extreme Temperatures)
Univeristy of Wisconsin-Madison

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Posted Oct. 31, 2025, set to expire Mar. 15, 2026

Job Title	Assistant/Associate/Full Professor in Mechanical Engineering (Materials for Extreme Temperatures)
Department	Mechanical Engineering
Institution	Univeristy of Wisconsin-Madison Madison, Wisconsin
Date Posted	Oct. 31, 2025
Application Deadline	Dec. 8, 2025
Position Start Date	Available immediately
Job Categories	Assistant Professor Associate Professor Professor
Academic Field(s)	Mechanical Engineering Material/Metallurgy Aerospace/Aeronautical/Astronautics
Apply Online Here	https://jobs.wisc.edu/jobs/assistant-associate-full-professor-in-mechanical-engineering-materials-for-extreme-temperatures-madison-wisconsin-united-states

Apply By Email

Job Description

The Department of Mechanical Engineering at the University of Wisconsin–Madison invites applications for a faculty position at the Assistant/Associate/Full Professor rank in Extreme Temperature Materials and Structures, with emphasis on aerospace engineering and advanced manufacturing applications. As the department expands its aerospace program, we seek scholars

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conducting cutting-edge research at the frontiers of materials and manufacturing technologies critical to hypersonic flight vehicles, reentry systems, turbine engines, propulsion systems, space structures, and supporting equipment such as heat exchangers. We welcome candidates with expertise in, but not limited to, advanced high-temperature alloy design and synthesis/fabrication, advanced manufacturing of ultra-high-temperature ceramics (UHTCs), ceramic matrix composites (CMCs), cryogenic and ultra-low-temperature materials, thermal protection systems (TPS), environmental barrier coatings (EBCs), oxidation, corrosion, and ablation science, in-situ diagnostics under extreme conditions, and nondestructive evaluation (NDE) of hot structures. Candidates whose research holistically addresses high impact societal problems related to the areas described above and transcends traditional disciplinary boundaries are especially encouraged to apply.

Additional Information:

The Department of Mechanical Engineering at the University of Wisconsin-Madison is rapidly expanding, with growing student enrollment and a dynamic wave of faculty hires, making it one of the university's most vibrant and fast-evolving departments. The Department offers and fosters a transdisciplinary research and educational environment and provides the infrastructure to address grand technological challenges. The Department also strives to create a culture of belonging for all members of our growing department. Candidates who can contribute to these priorities are encouraged to identify their strengths and experiences in these areas in their cover letter, research statement, and/or teaching statement.

Current research areas in the ME Department include energy systems and storage, electrochemical systems, and sustainability; robotics, bio robotics, sensing and autonomous systems; computer-aided engineering, data-driven approaches, AI/ML and design; fluid and solid mechanics; renewable energy, aerodynamics, extreme mechanics, biomechanics; and advanced materials design and manufacturing. The Department is currently expanding its teaching and research portfolio in Aerospace Engineering. New research directions will continue to be launched and nurtured to facilitate creative solutions to transformative technical challenges.

Key Job Responsibilities:

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Teaching undergraduate and graduate courses and contributing to curriculum updates and innovations; mentoring graduate students and supervising their research; developing and directing a successful, extramurally funded research program; participating in departmental and university shared governance; and contributing to professional and public service. Faculty at the associate or full professor rank will also have the responsibility of leading large research proposals and center-type activities.

Department:

- College of Engineering, Department of Mechanical Engineering

Compensation:

- Negotiable – 9 months / ongoing / renewable

Required Qualifications:

- Candidates will have a demonstrated record of academic achievement such as peer-reviewed publications and grant awards appropriate for the early career, exceptional potential in establishing a world-class research program and a demonstrated commitment to high-quality and inclusive undergraduate and graduate instruction.

Education:

- Required PhD in Mechanical Engineering, Aerospace/Aeronautics Engineering, Manufacturing Engineering, Materials Science and Engineering, or a closely related field. field by the start date.

How to Apply:

- Please apply directly to the website by clicking on "Apply Now". Upload a SINGLE PDF document

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containing a cover letter, a detailed curriculum vitae (CV) including a complete list of publications, and the names and contact information for three references. Applicants should include a maximum three-page research statement and a one-page teaching statement describing how the applicant's research and teaching goals fit the solicitation described above. Applicants should also provide names and contact information for three references. A criminal background check will be conducted prior to hiring.

Deadline:

- The deadline for assuring full consideration is December 8, 2025. However, this position will remain open and applications may be considered until this position is filled.

EEO/AA Policy

Institutional Statement on Diversity:

Diversity is a source of strength, creativity, and innovation for UW-Madison. We value the contributions of each person and respect the profound ways their identity, culture, background, experience, status, abilities, and opinion enrich the university community. We commit ourselves to the pursuit of excellence in teaching, research, outreach, and diversity as inextricably linked goals.

The University of Wisconsin-Madison fulfills its public mission by creating a welcoming and inclusive community for people from every background - people who as students, faculty, and staff serve Wisconsin and the world.

The University of Wisconsin-Madison is an Equal Opportunity Employer.

Qualified applicants will receive consideration for employment without regard to, including but not limited to, race, color, religion, sex, sexual orientation, national origin, age, pregnancy, disability, or status as a protected veteran and other bases as defined by federal regulations and UW System policies. We promote excellence by acknowledging skills and expertise from all backgrounds and encourage all qualified individuals to apply. For more information regarding applicant and employee rights and to view federal and state required postings, visit the [Human Resources Workplace Poster website](#)

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To [request a disability or pregnancy-related accommodation](#) for any step in the hiring process (e.g., application, interview, pre-employment testing, etc.), please contact the [Divisional Disability Representative \(DDR\)](#) in the division you are applying to. Please make your request as soon as possible to help the university respond most effectively to you.

Employment may require a criminal background check. It may also require your references to answer questions regarding misconduct, including sexual violence and sexual harassment.

The University of Wisconsin System will not reveal the identities of applicants who request confidentiality in writing, except that the identity of the successful candidate will be released. See Wis. Stat. sec. 19.36(7).

The [Annual Security and Fire Safety Report](#) contains current campus safety and disciplinary policies, crime statistics for the previous 3 calendar years, and on-campus student housing fire safety policies and fire statistics for the previous 3 calendar years. UW-Madison will provide a paper copy upon request; please contact the [University of Wisconsin Police Department](#).

Contact Information

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

Contact Faculty Recruiting Committee
 Mechanical Engineering
 Univeristy of Wisconsin-Madison
 1513 University Ave #3107
 Madison, WI 53706

Contact E-mail meseach@engr.wisc.edu