

Tenure-track Faculty Position in the areas of Space
Engineering
Johns Hopkins University

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Posted Nov. 20, 2024, set to expire Mar. 24, 2025

Job Title	Tenure-track Faculty Position in the areas of Space Engineering
Department	Mechanical Engineering http://me.jhu.edu
Institution	Johns Hopkins University Baltimore, Maryland
Date Posted	Nov. 20, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professor Associate Professor Assistant Professor Research Professor
Academic Field(s)	Engineering - Other Mechanical Engineering Aerospace/Aeronautical/Astronautics
Apply Online Here	http://apply.interfolio.com/159470

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Job Description

The Department of Mechanical Engineering at Johns Hopkins University invites applications for a tenure-track/tenured faculty position at all levels in the areas of Space Engineering. We seek candidates with expertise in one or more of the following areas, including but not limited to: (1) spacecraft propulsion, including advanced propulsion concepts; (2) space structures and materials,

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including multiscale modeling, experimental characterization, or design of spacecraft structures and materials; (3) atmospheric entry and aerothermodynamics; (4) advanced manufacturing for space applications; (5) artificial intelligence for space applications, including physics-informed machine learning, autonomy, design optimization, and digital twins for space structures and propulsion; and (6) space technologies for planetary health, including atmospheric monitoring, climate applications, debris mitigation, and sustainable space systems. The department is continuing its investment in growing the area of space engineering, which is intended to continue over the next five years. The successful candidate is expected to play a leadership role in this activity. This growth will complement major space-related activities at the Johns Hopkins Applied Physics Laboratory. The Johns Hopkins Homewood campus is also home to the Space Telescope Science Institute.

The Department of Mechanical Engineering has 28 full-time tenured and tenure-track faculty members, 23 research and teaching faculty members, 240 undergraduates, 250 graduate students, and 25 postdocs. The Whiting School of Engineering and the Johns Hopkins University actively encourages and supports interdisciplinary research through school-level research centers and cross-divisional research institutes. In addition to the Applied Physics Laboratory, the Department of Mechanical Engineering has strong affiliations with the Center of Environmental and Applied Fluid Mechanics (CEAFM), the Hopkins Extreme Materials Institute ([HEMI](#)), the Johns Hopkins Center for Additive Manufacturing and Architected Materials ([JAM2](#)), the Institute for Data Intensive Engineering and Science ([IDIES](#)), and the Johns Hopkins Institute for Planetary Health (JHIPH). More information about the Department can be found at <http://me.jhu.edu> and the Whiting School of Engineering at <http://engineering.jhu.edu>.

The Whiting School of Engineering and the Department of Mechanical Engineering are committed to building a diverse educational environment. The University is an Affirmative Action/Equal Opportunity Employer of women, minorities, protected veterans and individuals with disabilities and encourages applications from these and other protected group members. Consistent with the University's goals of achieving excellence in all areas, we will assess the comprehensive qualifications of each applicant.

Questions can be addressed to ME_Dept_Chair@jhu.edu – please use the subject line “Space Engineering Faculty Search at JHU Mechanical Engineering”.

Requirements:

Applicants must hold a Ph.D. in an engineering or closely related field and will be expected to establish an independent, multidisciplinary, and internationally recognized research program. We seek a colleague who has a strong commitment to teaching and mentoring at the undergraduate and graduate levels and who will contribute to our community by embracing excellence, diversity and inclusion. We

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strongly encourage applications from women and members of groups traditionally underrepresented in engineering.

All applicants should submit a curriculum vitae, a research statement, a teaching statement, and three representative publications. Applicants for Assistant Professor appointments should also provide complete contact information for at least three references. Applications must be submitted online at <http://apply.interfolio.com/159470>. Review of applications will begin around January 15, 2025, but the Department will consider exceptional applicants at any time.

Contact Information

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

Contact

Mechanical Engineering
Johns Hopkins University
3400 N Charles Street
Baltimore, MD 21218

Contact E-mail meadmin@jhu.edu