

Assistant Professor in Mechanical Engineering for Health
Applications
Binghamton University

Direct Link: <https://www.AcademicKeys.com/r?job=231136>

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Posted Feb. 21, 2024, set to expire Jun. 24, 2024

Job Title Assistant Professor in Mechanical Engineering for Health Applications

Department Mechanical Engineering

<https://www.binghamton.edu/mechanical-engineering/index.html>

Institution Binghamton University
Binghamton, New York

Date Posted Feb. 21, 2024

Application Open until filled

Deadline

Position Fall 2024

Start Date

Job Categories Assistant Professor

Academic Field(s) Mechanical Engineering

Bioengineering (all Bio-related fields)

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Job Description

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About Binghamton University:

Binghamton University is a world-class institution that unites more than 130 broadly interdisciplinary educational programs with some of the most vibrant research in the nation. Our unique character - shaped by outstanding academics, facilities and community life - promotes extraordinary student success.

Binghamton merges rigorous academics, distinguished faculty and state-of-the-art facilities to engage and challenge its 18,000 students. The high-achieving Binghamton student body also represents a great diversity of life experiences, from first-generation college-goers to international students. Beyond their talent, these classmates share a desire to shape the future through technology, insight, intellectual exploration and community service.

Job Description:

The Department of Mechanical Engineering at the State University of New York at Binghamton invites applications for a tenure-track faculty position at the assistant professor level beginning in Fall 2024. The department is interested in applying fundamental engineering principles in health applications. Areas of interest include but are not limited to

- Mechanics of soft and biological materials; manufacturing for healthcare (additive, self-assembly, self-healing, stimuli-responsive, biomanufacturing, etc.); polymer composites for biomedical usage.
- Soft robotics supporting healthcare and rehabilitation technologies; prosthetics; surgical robots; motion planning; haptics, and nonlinear control.
- Fluid transport in the human body (e.g., blood, cerebrospinal fluid (CSF), and mucus); thermal science in medicine, and artificial intelligence enhanced biosensors for healthcare monitoring and disease diagnostics.

The ME Department has a diverse group of faculty members working on a variety of biomedical and healthcare related research problems. This includes research on acoustic sensors for hearing assistance, self-powered devices for monitoring biomedical implants, fluid dynamics modeling of transport in the brain and cardiovascular systems, mechanical models of fetal brain development, and cellular mechanics. All of this research is conducted in collaboration with other departments within Watson, Upstate Medical University, and other leading Universities. We seek to accelerate our research activities in this area by hiring a new faculty member who will contribute to our goal of establishing a Mechanical Engineering for Healthcare Innovation research cluster.

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Binghamton University is an R1 public research university and has a large and growing research portfolio in battery technology, advanced manufacturing, electronics packaging, pharmaceutical sciences, healthcare and therapies, and sustainability. Candidates are encouraged to review initiatives supported by the State and University Sponsored Research Centers.

The Department of Mechanical Engineering has 25 faculty members, with undergraduate and graduate enrollments of approximately 400 and 125 students, respectively. In the pursuit of academic diversity and inclusive excellence, Watson College strives to cultivate an equity-minded STEM community that addresses and eliminates exclusionary systems and practices and promotes innovation and academic success for all students, faculty and staff. We do this by creating and sustaining learning environments where differences and similarities are valued and respected, and all students, faculty and staff, especially women and underrepresented groups, are included and empowered to excel in engineering education. Potential applicants who share this goal, especially underrepresented minorities, women and persons with disabilities, are strongly encouraged to apply. Additional information about the Mechanical Engineering Department at Binghamton University can be found online at:

<http://www.binghamton.edu/me/>

Application Instructions:

Applicants should submit: (1) a cover letter, (2) curriculum vitae, (3) a statement of research plans, (4) a statement of teaching interests, (5) a diversity statement that describes your experience and/or vision for teaching a diverse population of students, including first generation students from diverse racial and ethnic backgrounds and international students, and how this would contribute to enhancing the diversity and climate of the department, college and university, (6) a maximum of three most significant publications, and (7) a list of at least three professional references, including address, e-mail and telephone number. Applications received by March 14, 2024, will receive full consideration. The search will remain open until appointments have been made. The State University of New York and Binghamton University are equal opportunity employers. All qualified applicants are encouraged to apply.

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EEO/AA Policy

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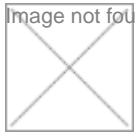
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The State University of New York is an Equal Opportunity/Affirmative Action Employer. It is the policy of Binghamton University to provide for and promote equal opportunity employment, compensation, and other terms and conditions of employment without discrimination on the basis of age, race, color, religion, disability, national origin, gender identity or expression, sexual orientation, veteran or military service member status, marital status, domestic violence victim status, genetic predisposition or carrier status, or arrest and/or criminal conviction record unless based upon a bona fide occupational qualification or other exception.

As required by title IX and its implementing regulations, Binghamton University does not discriminate on the basis of sex in the educational programs and activities which it operates. This requirement extends to employment and admission. Inquiries about sex discrimination may be directed to the University Title IX Coordinator or directly to the Office of Civil Rights (OCR). Contact information for the Title IX Coordinator and OCR, as well as the University's complete Non-Discrimination Notice may be found [here](#).

Pursuant to Executive Order 161, no State entity, as defined by the Executive Order, is permitted to ask, or mandate, in any form, that an applicant for employment provide his or her current compensation, or any prior compensation history, until such time as the applicant is extended a conditional offer of employment with compensation. If such information has been requested from you before such time, please contact the Governor's Office of Employee Relations at (518) 474-6988

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or via email at info@goer.ny.gov.

Binghamton University is a tobacco-free campus effective August 1, 2017.

Contact Information

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

Contact Elizabeth Kucharek
Mechanical Engineering
Binghamton University
PO Box 6000

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