

Continuing Contract Faculty in Mechanical and Aerospace
Engineering
New York University

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Posted Oct. 28, 2024, set to expire Mar. 1, 2025

Job Title Continuing Contract Faculty in Mechanical and Aerospace
Engineering

Department Tandon School of Engineering

<https://engineering.nyu.edu/academics/departments/mechanical-and-aerospace-engineering>

Institution New York University
Brooklyn, New York

Date Posted Oct. 28, 2024

Application Deadline Open until filled

Position Start Date January 2025

Job Categories Contract Faculty

Academic Field(s) Robotics
Mechanical Engineering

Job Website <https://engineering.nyu.edu/human-resources/careers-nyu-tandon>

Apply Online Here <http://apply.interfolio.com/155586>

Apply By Email

Job Description

The [Department of Mechanical and Aerospace Engineering](#) at the NYU Tandon School of Engineering invites applications among the robotics community for two full-time, teaching-oriented, non-tenured, continuing contract faculty positions in Mechanical Engineering, at the rank of Industry Assistant Professor, with a start date as early as January 1, 2025. The primary responsibilities of the positions are classroom and laboratory teaching and project/thesis mentoring in Robotics and Embodied Artificial

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Intelligence (AI). The successful candidate should be an excellent teacher and have research experience in robotics and embodied AI fields. The candidate must be able to mentor projects/theses in support of our MS program in Robotics and undergraduate courses in our Robotics minor.

Requirement

The expectations for the Industry Assistant Professor primarily involve teaching robotics courses per semester. This position is not required to conduct research, although if the candidate wishes to, the teaching assignment can be arranged to allow the candidate to engage in funded research, and the candidate is welcome to leverage the Robotics and AI research networks and resources within the department, the school, and the whole university. The initial appointment may take 2-3 years, and the position is renewable afterward. Ideal candidates for the role could include postdocs and research fellows who are actively involved in robotic research in either academia or industry R&D labs.

Qualification

Candidates should have a Ph.D. degree in engineering or science closely related to Robotics, such as mechanical engineering, electrical engineering, computer engineering, computer science, aerospace engineering, industrial engineering, civil engineering, or a related discipline. Candidates must demonstrate a solid understanding of the basics of one or multiple fundamental areas in robotics (perception & sensing, planning & control, learning, and design). Strong hands-on experience in robotics theories and software tools is a plus. Candidates must demonstrate clear potential for scholarship, leadership, and curricular innovation. All candidates must demonstrate or show potential for excellence in teaching and mentoring.

Application Instructions

Please submit the following materials electronically through Interfolio: <http://apply.interfolio.com/155586>

Application Materials

We request applicants who are interested in this position to submit the following documents by November 15 to receive full consideration from the search committee. The application will be reviewed on a rolling basis. We encourage candidates to submit their applications as soon as possible.

- Cover Letter
- Current CV
- Transcripts in Graduate School
 - especially for the courses related to robotics

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- Teaching Statement (up to 2 pages)
 - We are looking for descriptions of teaching experience, philosophy, vision
- A statement of your plans for incorporating inclusion, diversity, equity, and belonging into your teaching, research, and service (up to 2 pages).
- Research Statement (optional)
- Teaching Evaluation (required if you have prior teaching experience)
- Sample Teaching Materials (optional)
 - We are looking for syllabi, slides, or video recordings from the candidate's past teaching experience
- Names and contact information for three references

We will review applications beginning on October 21 and will continue until we fill the position. For any questions, please contact Katsuo Kurabayashi katsuo.k@nyu.edu

About Us

New York University (NYU) is one of the top private universities in the United States, and NYU Tandon School of Engineering traces its roots back to 1854, building on an illustrious past as Brooklyn Poly and the NYU Polytechnic School of Engineering. Our mission is to excel in research, teaching, and entrepreneurship and inspire and educate engineers for the 21st century — backed by an historic commitment of \$1 billion to recruit new faculty, fuel groundbreaking basic and applied research in key areas, and expand the Downtown Brooklyn campus. NYU Tandon faculty are world renowned leaders in science and technology, with a strong commitment to research, innovation, and entrepreneurship that make a difference in the world. We are deeply committed to teaching and learning, and with NYU's unrivaled global network of campuses, we promote a truly global engineering education. We lead in online education and in K-12 STEM outreach. Our students conduct Vertically Integrated Research projects and participate in an extensive undergraduate summer research program.

The Department of Mechanical and Aerospace Engineering at NYU Tandon educates future engineers who develop the physical systems and devices that modern society demands, from automobiles to air conditioning, prosthetic limbs to autonomous machines, and rocket engines to satellites. Our faculty is breaking new ground in controls and robotic systems, computer-integrated mechanical and electromechanical systems, the modeling and simulation of complex systems, and fluid and thermal systems, among other areas. Recent research has led to breakthroughs in fast trajectory planning for legged robots and robot manipulators; accurate full-body proprioception for soft robotics; robust robot localization and navigation in urban environments; robots that aid in the education of children with



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autism; lightweight new protective materials with applications in national defense, sports medicine, and transportation; technological methods of leading wildlife away from danger areas; aspects of complex urban systems that impact how people live and work in dense urban environments, etc.

NYU Tandon is committed to substantially increase the proportion of our faculty from historically underrepresented groups in STEM and we encourage candidates from such groups to apply. We aspire to create a climate where diversity and inclusion are not only appreciated but considered an asset for creativity and innovation, and we seek faculty who have a real passion for a culturally diverse environment. We take pride in our high numbers of female students and students who are the first in their family to go to college. NYU belongs to the Higher Education Recruitment Consortium (HERC), which assists with dual-career searches, and our faculty are supported by a range of work-life balance programs provided by the [NYU Office of Work Life](#).

Additional Information

In compliance with NYC's Pay Transparency Act, the annual (9 month) base salary range for this position is \$85,000-\$125,000 for the Industry Assistant Professor rank. New York University considers factors such as (but not limited to) the scope and responsibilities of the position, candidate's work experience, education/training, key skills, internal peer equity, as well as market and organizational considerations when extending an offer.

EEO/AA Policy

NYU is an Equal Opportunity Employer and is committed to a policy of equal treatment and opportunity in every aspect of its recruitment and hiring process without regard to age, alienage, caregiver status, childbirth, citizenship status, color, creed, disability, domestic violence victim status, ethnicity, familial status, gender and/or gender identity or expression, marital status, military status, national origin, parental status, partnership status, predisposing genetic characteristics, pregnancy, race, religion, reproductive health decision making, sex, sexual orientation, unemployment status, veteran status, or any other legally protected basis. Women, racial and ethnic minorities, persons of minority sexual orientation or gender identity, individuals with disabilities, and veterans are encouraged to apply for vacant positions at all levels.

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NYU aims to be among the greenest urban campuses in the country and carbon neutral by 2040.
Learn more at nyu.edu/sustainability

Contact Information

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

Contact Katsuo Kurabayashi
Tandon School of Engineering
New York University
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Brooklyn, NY 11201

Contact E-mail katsuo.k@nyu.edu