Robotics Engineer
Tufts University

Job Title	Robotics Engineer
Department	Center for Engineering Education and Outreach
Institution	Tufts University
	Medford, Massachusetts
Date Posted	Apr. 5, 2024
Application Deadline	Open until filled
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Robotics
Job Website	https://jobs.tufts.edu/jobs/20323?lang=en-us&iis=Job+Board&iisn=AcademicKeys
Apply By Email	
Job Description	

Overview

Robotics Engineer
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The core purpose of the Center for Engineering Education and Outreach (CEEO) is to improve education through engineering. In doing so, we hope to accomplish four goals: (1) increase students' excitement for learning math and science; (2) give students skills that will make learning more enjoyable in all subjects; (3) increase technical literacy for all; and (4) increase the awareness of the importance of engineering for society. To achieve these goals, we work to: (1) teach science, technology, and mathematics using the engineering process as the learning vehicle; (2) teach the engineering process itself; and (3) teach students how to design solutions by combining individual experiences and math/science knowledge. To learn more about the CEEO, visit http://www.ceeo.tufts.edu.

What You'll Do

As part of a 25 year long collaboration with LEGO Education, the Robotics Engineer will increase community support and outreach though firmware development. Note this will be a Tufts website and GitHub - not a LEGO one.

Essential Functions:

Lead the supporting website and GitHub

- Develop/test/publish new versions of firmware
- Support an interactive forum
- Develop "instructables" for how to get started
- Build galleries of example code for the existing firmware

Participate in all aspects of the LEGO-supported work

- Run small pilot tests (including IRB)
- Oversee undergrad and grad researchers
- Support LEGO tools in Tufts classrooms

Participate in CEEO related work to support being part of the CEEO community

• Attend CEEO meetings, events, retreats, and committee work when appropriate
• Present work for events relevant to showcase the Robotics Engineer's work on CEEO projects to different audiences
• Document and support social media postings to support CEEO

What We're Looking For

Basic Requirements:

Knowledge and experience typically acquired by:

Extensive LEGO robotics experience
Classroom experience (as a teacher)
Firmware development experience ("full stack" - from C++ in the firmware backend to UI design / JavaScript for the user)
Micropython, C++, LabVIEW skills
Methodology experience (measuring student thinking, IRB, etc)
Circuit board design and fabrication
Makerspace knowledge (laser cutters, 3D printers, etc)

Preferred Qualifications:

• Doctorate in a related discipline

Pay Range

Minimum $84,400.00, Midpoint $105,550.00, Maximum $126,700.00

Salary is based on related experience, expertise, and internal equity; generally, new hires can expect pay between the minimum and midpoint of the range.

Contact Information

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

Contact

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