Assistant Specialist - Reinforcement Learning and Deep Learning - Department of Mechanical Engineering
University of California Berkeley

Job Title	Assistant Specialist - Reinforcement Learning and Deep Learning - Department of Mechanical Engineering
Department	
Institution	University of California Berkeley Berkeley, California
Date Posted	Aug. 26, 2024
Application Deadline	09/24/2024
Position Start Date	Available immediately
Job Categories	Professional Staff
Academic Field(s)	Mechanical Engineering
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Job Description	

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Position overview
Salary range: The UC academic salary scales set the minimum pay determined by rank and step at appointment. See the following table(s) for the current salary scale(s) for this position: https://www.ucop.edu/academic-personnel-programs/_files/2024-25/july-2024-scales/t24-b.pdf A reasonable estimate for this position is $61,300 - $68,300 full time annual rate.

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Percent time: 100%

Anticipated start: Fall 2024

Position duration: 1 year

Application Window
Open date: August 24, 2024

Next review date: Sunday, Sep 8, 2024 at 11:59pm (Pacific Time)
Apply by this date to ensure full consideration by the committee.

Final date: Tuesday, Sep 24, 2024 at 11:59pm (Pacific Time)
Applications will continue to be accepted until this date, but those received after the review date will only be considered if the position has not yet been filled.

Position description

The work in the Hybrid Robotics Group lies at the intersection of applied Nonlinear Control and Learning with application to Hybrid Dynamic Robotics. Our goal is to design controllers for achieving dynamic, fast, energy-efficient, and robust maneuvers on hybrid and underactuated systems such as legged and aerial robots. This will require addressing the challenges of high degree-of-freedom, high degree-of-underactuation, nonlinear and hybrid systems with unilateral constraints, operating in stochastic and hard-to-model regimes. Our work has focused on creating dynamic bipedal locomotion - both walking and running, and dynamic aerial manipulation maneuvers.

The candidate will be responsible for conducting research in the field of reinforcement learning and deep learning for humanoid robots. This will involve developing algorithms for locomotion and manipulation using humanoid robots. The candidate will also conduct experiments on the humanoid robot as well as prepare papers, reports, and slides for presentation.

Labor Contract: https://ucnet.universityofcalifornia.edu/labor/bargaining-units/ra/contract.html

Qualifications
Basic qualifications (required at time of application)
Bachelor's degree or equivalent international degree

Additional qualifications (required at time of start)

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Master's degree or equivalent international degree, or bachelor's degree or equivalent international degree plus two years of research experience

Preferred qualifications

- Master's or equivalent international degree in one of the following fields: Mechanical Engineering, Computer Sciences, or Electrical Engineering
- Research experience in Machine Learning / Deep Reinforcement Learning
- Research experience in robotics, in particular on legged robots
- Strong programming experience in Python
- Programming experience in C++ desired but optional

Application Requirements

Document requirements

- Curriculum Vitae - Your most recently updated C.V.
- Cover Letter (Optional)

Reference requirements

- 3 required (contact information only)

Apply link: https://aprecruit.berkeley.edu/JPF04555

Help contact: koushils@berkeley.edu

About UC Berkeley

UC Berkeley is committed to diversity, equity, inclusion, and belonging. The excellence of the institution requires an environment in which the diverse community of faculty, students, and staff are welcome and included. Successful candidates will demonstrate knowledge and skill related to ensuring equity and inclusion in the activities of their academic position (e.g., teaching, research, and service, as applicable).

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The University of California, Berkeley is an Equal Opportunity/Affirmative Action Employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, sexual orientation, gender identity, national origin, disability, age, or protected veteran status.

Please refer to the University of California's Affirmative Action Policy and the University of California's Anti-Discrimination Policy.

In searches when letters of reference are required all letters will be treated as confidential per University of California policy and California state law. Please refer potential referees, including when letters are provided via a third party (i.e., dossier service or career center), to the UC Berkeley statement of confidentiality prior to submitting their letter.

As a University employee, you will be required to comply with all applicable University policies and/or collective bargaining agreements, as may be amended from time to time. Federal, state, or local government directives may impose additional requirements.

Job location
Berkeley, CA

To apply, visit https://aprecruit.berkeley.edu/JPF04555

Contact Information

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

Contact

N/A
University of California Berkeley

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