UNIVERSITY OF CALIFORNIA, SANTA CRUZ
Electrical and Computer Engineering
Assistant Professor (Intelligent Robotics)

The Department of Electrical and Computer Engineering https://www.soe.ucsc.edu/departments/electrical-computer-engineering at the University of California, Santa Cruz invites applications for a tenure track Assistant Professor in Intelligent Robotics.

We seek outstanding applicants that work at the intersection of robotics, control, and cyber-physical systems. Of interest are individuals working on applied research in sensing/perception and on closing the control loop using advanced techniques [e.g., machine learning (ML); data-driven control; intelligent control (AI)] to enable the applications of robotics and autonomous systems in complex and uncertain environments. These environments include, but are not limited to, autonomous robots for AgTech, self-driving cars and trucks in densely populated areas, ocean and space exploration, unmanned flying vehicles in crowded and unstructured spaces, surgical operating rooms, rescue missions, and infrastructure protection after natural disasters.

We expect this hire to spark close collaborations between control hardware, ML, AI, Networking, Robotics, and Cyber Physical Systems researchers in the Baskin School of Engineering and beyond including, but not limited, to cross campus collaborations with the school of Physical and Biological Sciences and the School of Social Sciences. This hire will be housed in the newly renovated Westside Research Park Campus that includes a 5,000 Sq. ft. flying arena with motion caption technology for autonomous vehicles and associated maker space. Candidates should be able to teach core ECE and Robotics courses, robotics courses for non-engineering majors, and be passionate about innovation in hands-on, project-based, and laboratory-based educational activities at the undergraduate and graduate levels. The successful candidate is expected to develop an externally funded research program, advise and support graduate students in their research area, develop and teach courses within the undergraduate and graduate curriculum, perform university, public, and professional service, and cherish working with students, faculty, and staff from a wide range of social and cultural backgrounds.

The Electrical and Computer Engineering department strives to support a creative and forward-looking research program with faculties collaborating in many areas of Electrical and Computer Engineering and beyond. The department houses BS (ABET accredited), MS, and Ph.D. degree programs in Electrical and Computer Engineering, as well as a BS degree program in Robotics Engineering. Our faculty includes seven IEEE fellows, two AAAS fellows, two OSA fellows, one ACM fellow, and one fellow of the Academy of Inventors. UCSC is home to many centers and research institutes including the UCSC Genomics Institute (https://hausslergenomics.ucsc.edu), the W.M. Keck Center for Nanoscale Optofluidics (http://cfno.soe.ucsc.edu), the Center for Molecular Biology of RNA (http://rna.ucsc.edu/rnacenter/), and the Cyber-Physical Systems Research Center (https://cps.soe.ucsc.edu/).

UCSC values diversity, equity, and inclusion and is committed to hiring faculty who share these values. UCSC is a Hispanic-Serving Institution with a high proportion of first-in-family students. To be considered, candidates must demonstrate an understanding of the barriers facing women and people of color, and describe their experience and future plans to promote equity and inclusion in teaching, mentoring, and research.

The UC Santa Cruz campus is located approximately 75 miles from San Francisco and 35 miles from the heart of Silicon Valley. Campus comprises two thousand acres of forested hills overlooking the Pacific Ocean and Monterey Bay with one of the most visually spectacular settings in higher education. In 2016-17, the Times Higher Education ranked UC Santa Cruz 4th in research influence and US News 2nd for research mobility in 2019.

The UCSC Silicon Valley Campus is located in the heart of Silicon Valley near San Jose, the worldwide epicenter for industry and innovation in games and information technology. The location affords extensive consulting opportunities and avenues for collaborative research with industry. Opened in 2016, the UCSC Silicon Valley Campus features contemporary interior design with multiple classrooms, computer labs, and project rooms, along with an event center and television studio.

ACADEMIC TITLE
Assistant Professor [tenure track]

SALARY
Commensurate with qualifications and experience; academic year (nine-month basis).

BASIC QUALIFICATIONS

A Ph.D. or equivalent foreign degree in Electrical Engineering, Computer Engineering, Electrical and Computer Engineering, Mechanical Engineering, or other relevant field, expected to be completed by June 30, 2020; demonstrated record of research and teaching.

POSITION AVAILABLE

July 1, 2020 (with academic year beginning September 2020). All Ph.D. requirements must be completed by June 30, 2021 for employment beyond that date.

APPLICATION REQUIREMENTS

Applications are accepted via the UCSC Academic Recruit online system; all documents and materials must be submitted as PDFs.

APPLY AT https://recruit.ucsc.edu/apply/JPF00799
Please refer to Position # JPF00799-20 in all correspondence.

Required Documents/Materials
- Letter of application that briefly summarizes your qualifications and interest in the position
- Curriculum vitae
- Statement addressing contributions to diversity, equity, and inclusion through research, teaching, and/or service. See guidelines at https://apo.ucsc.edu/diversity.html
- 3-4 publications (3 publications are required; a maximum of 4 will be accepted)
- Statement of research plans
- Statement of teaching interests and experience
- 3 confidential letters of recommendation*

Reference Requirement

Applications must include three confidential letters of recommendation*. Please note that your references, or dossier service, will submit their confidential letters directly to the UC Recruit System.

*All letters will be treated as confidential per University of California policy and California state law. For any reference letter provided via a third party (i.e., dossier service, career center), direct the author to UCSC's confidentiality statement at http://apo.ucsc.edu/confstm.htm.

RECRUITMENT PERIOD

Full consideration will be given to applications completed by March 20, 2020. Applications received after this date will be considered only if the position has not been filled.