

Postdoctoral Position on Retail / Warehouse Robotic Manipulation

Mentor: Dr. Soh Kim (Stanford University), Dr. Tae Myung Huh (UC Santa Cruz)

Academic Department: Civil & Environmental Engineering, Stanford University

Appointment Term: 12 months with opportunity for additional 12 months

Application Deadline: April 23, 2023, 23:59 PST

Research Webpage: sdqc.stanford.edu/, tml.engineering.ucsc.edu/

Application Submission Information: Fill out this form (<https://forms.gle/JRGy5tpSADbpkDQv6>)

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Position Description

We are seeking a highly motivated postdoctoral researcher to join a collaborative research project between Stanford University and the University of California, Santa Cruz. The postdoc will join Stanford's Department of Civil and Environmental Engineering, working under supervision of Dr. Soh Kim, executive director of Stanford Center for Innovation and Design Research, and in collaboration with Dr. Tae Myung Huh, assistant professor of UC Santa Cruz's Electrical and Computer Engineering department. The postdoctoral researcher is expected to be collaboratively involved in research activities at both institutions and should commute to UC Santa Cruz (~45 miles from Stanford) at least 3 days a week for lab equipment use.

The position will focus on robotic manipulation in the retail/warehouse sector, including but not limited to;

- Identifying automation needs through interviews and site visits
- Developing robotic hardware, such as grippers and tactile sensors, that allows for dexterous manipulation in retail/warehouse environments.
- Demonstrating robotic manipulations using smart control design techniques
- Authoring research papers and proposing future research to funding agencies

Required Qualifications

- Interested applicants must have a PhD degree in a related field.
- Preference will be given to applicants with an outstanding publication record and expertise in mechanical design in robotic gripper/tactile sensors, and robotic dexterity.

Required Application Materials

- 1-page cover letter describing research interests
- Curriculum vitae
- Summary of up to 3 most related research projects/publications of the applicant (1-page or 1-slide per each project/publication)
- Two letters of recommendation will be required upon the invitation of the interview

** 12-month J-1 visa will be sponsored by Stanford Engineering for the international scholar