

Postdoc position in robotic bio-micro-nano manipulation Aalto University

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Posted Feb. 14, 2023, set to expire Dec. 30, 2023

Job Title Postdoc position in robotic bio-micro-nano manipulation
Department T410 Dept. Electrical Engineering and Automation
Institution Aalto University
, , Finland

Date Posted Feb. 14, 2023

Application Deadline Open until filled
Position Start Date Available immediately

Job Categories Post-Doc

Academic Field(s) Electrical and/or Electronics

Job Website https://aalto.wd3.myworkdayjobs.com/aalto/job/Otaniemi-Espoo-Finland/Postdoc-position-in-robotic-bio-micro-nano-manipulation_R35580-1

Apply By Email

Job Description

The robotic instrument group is looking for a postdoc for robotic bio-micro-nano manipulation. The candidate is expected to develop methods to manipulate micro/nanoparticles that interact with and characterize the biological cells using robotic electromagnetic needles. The candidate will work in a highly international and dynamic research group, including multidisciplinary collaboration with researchers/professors in biomedicine at other universities internationally.

The Department of Electrical Engineering and Automation is a part of the Aalto University School of Electrical Engineering. The position is opened for the Robotic Instruments group (<http://www.aalto.fi/robotinst>) at the department. The positions are immediately available, and the starting date is based on mutual agreement. The salary is based on the university salary scheme. The typical starting salary for a postdoc is around 3800 €/month.

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REQUIREMENTS AND DETAILS

As a successful applicant, you should be highly motivated in miniaturized robotics research and have a background in one or several of the related fields: robotics, automation, mechatronics, microfluidics, microsystems, or related fields. Relevant experience in micromanipulation, nanomanipulation, and bio-micromanipulation is appreciated. We expect the applicant to be eager to work on biological applications of miniaturized robotics, including automation software and algorithms including machine learning. The applicant is expected to be innovative, thinking out-of-box, eager to work on multi-disciplinary topics, and hands-on.

The applicant should have or be expected to have a doctoral degree in the related field. Further details of the topic of the position will be specified during the recruitment process based on mutual interests.

HOW TO APPLY

Please send your application as a single PDF file at your earliest convenience or by Friday 17.03.2023 through our recruitment system. To access the recruitment system, please use the [Apply now!](#); link below.

Application material should include (all documents in English): *

Letter of motivation/initial research ideas (1-2 pages max) *

CV and publication list *

Official transcripts of the previous degree *

Degree certificate(s) and/or expected graduation date *

Contact details of three referees

All applications should be submitted using the online application system of Aalto University. Email applications will NOT be considered. For further information, please contact prof. Quan Zhou ([\[url=mailto:quan.zhou@aalto.fi\]](mailto:quan.zhou@aalto.fi)).

Aalto University is where science and art meet technology and business. We shape a sustainable future by making research breakthroughs in and across our disciplines, sparking the game changers of tomorrow and creating novel solutions to major global challenges. Our community is made up of 12 000 students, 400 professors and close to 4 000 other faculty and staff working on our dynamic campus in Espoo, Greater Helsinki, Finland. Diversity is part of who we are, and we actively work to ensure our community's diversity and inclusiveness. This is why we warmly encourage qualified candidates from all backgrounds to join our community.

The School of Electrical Engineering promotes high-quality science, technology and innovations for the

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benefit of the Finnish society and all of humankind. In our research environment, the natural sciences, engineering and information technology intertwine to form smart systems and innovations that save energy and promote well-being. With our research, we seek to respond to many challenges posed by sustainable development and the results are applied, for example, in mobile devices, electrical networks, health care and in satellites. School's special strength is linking the research with the Finnish and international business sector. We have around 2000 students in total, and around 250 master's and 50 doctoral degrees annually. Our personnel consists of 700 people with over 70 professors.

More about Aalto University:

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Contact Information

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

Contact

Finland