

Assistant Professor of Mechatronic Machines and  
Systems  
Aalto University School of Engineering

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Posted Sep. 11, 2019, expired Jan. 11, 2020

**Job Title** Assistant Professor of Mechatronic Machines and Systems  
**Department** Department of Mechanical Engineering  
<https://www.aalto.fi/en/department-of-mechanical-engineering/engineering-design>  
**Institution** Aalto University School of Engineering  
Espoo, , Finland

**Date Posted** Sep. 11, 2019

**Application Deadline** Open until filled  
**Position Start Date** Available immediately

**Job Categories** Assistant Professor

**Academic Field(s)** Robotics  
Mechatronics  
Mechanical Engineering

**Job Website** <https://www.aalto.fi/en/open-positions/assistant-professor-of-mechatronic-machines-and-system>

**Apply Online Here** [https://rekry.saima.fi/aaltohome/application\\_edit\\_welcome.html?job\\_id=2499&field\\_id&place\\_id](https://rekry.saima.fi/aaltohome/application_edit_welcome.html?job_id=2499&field_id&place_id)

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**Job  
Description**

Aalto University is a community of bold thinkers where science and art meet technology and business. We are committed to identifying and solving grand societal challenges and building an innovative future. Aalto University has six schools with nearly 11 000 students and nearly 400 professors. Our campus is located in Espoo, Finland.

Aalto University School of Engineering invites applications for

Assistant Professor of Mechatronic Machines and Systems

**Job description**

The position is located in Department of Mechanical Engineering, see <https://www.aalto.fi/department-of-mechanical-engineering> in the Engineering Design research group.

Mechatronics at Aalto is a broadly defined field within the Engineering Design research focus area. It involves the systematic integration of mechanics and machine design principals with computer science, materials science, control science and electronics in the scope of design, manufacturing, maintenance and upgrading of mechatronic systems and related services.

The Engineering Design research group envisages becoming a pioneer in applying the possibilities of ICT in mechanical engineering and becoming an internationally renowned unit in the field of rotating machinery, metrology, and experimental research. To actualize this vision, the Department recently established the ARotor Laboratory and Aalto Industrial Internet Campus (AIIC). These initiatives support Aalto's strategy of emphasizing multidisciplinary co-operation in research and teaching. The professorship strengthens transdisciplinary collaborations, as well as the integration and sharing of creative activities and thinking across different fields of the university.

The Professor will be responsible for leading research and education of design of mechatronic machines at Aalto University. The professor will also advise B.Sc, M.Sc. and D.Sc. students as well as postdocs, and take part in the broader collaborative research and administration in the Department of Mechanical Engineering. In addition, during tenure track there is an expectation of establishing long-term partnerships with private and public institutions and engaging in numerous engineering and education research projects.

**Requirements for the post**

Those in the academic tenure track system ( <https://www.aalto.fi/tenure-track> ) are expected to

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exercise and guide scientific research, to provide related higher academic education, to follow the advances of their field, to participate in service to the Aalto University community, and to take part in societal interaction and international collaboration in their field. Applicants are expected to have a doctoral degree in a relevant discipline and excellent skills in English. Applicants will be reviewed based on the following areas: research merits, teaching, industrial co-operation, collaborative and transdisciplinary competencies, innovation, and activity in academic communities. In addition, experience on preparation of competitive grant applications and receiving external research funding will be considered as an advantage.

When recruiting for the first term assistant professor position, the evaluation is mainly based on the potential of the candidate in the evaluated dimensions. When recruiting for the second term assistant professor position, the evaluation is based on both merits and potential. The evaluation of applicants will be supported by bibliometric analyses using e.g. ISI Web of Science.

#### Salary and benefits

Salary is internationally competitive and Aalto University supports wellbeing and provides health care and retirement benefits. Finland is a great and safe environment, offering many excellent state-subsidized services, including affordable day care and free schools.

#### How to apply

The application process includes two phases. In the first phase the applicants are required to submit the following material:

#### Curriculum Vitae

List of publications (with the three most significant publications highlighted and attached)

A research statement describing past research and plans for future research at Aalto

A teaching portfolio highlighting to date experience and future directions

Recommendation letters from at least four referees. It would be most helpful if your reference letter would include following information:

- Demonstrated abilities or potential for success in the position under consideration.
- Scholarly or creative contributions and their impact or potential for impact on the field, and how these accomplishments compare to those of others in the field at a similar level.
- The quality of venues in which the work has appeared (as applicable).

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- The candidate's independent productivity and creativity and/or role in co-authored work (as applicable).
- Demonstrated service or potential for service to the professional community.
- How the candidate would be rated for a similar position at referee's institution.

All material must be in English and follow the Aalto University instructions. General instructions for applicants including language requirements and guidelines for compiling teaching portfolio and CV are given at <https://www.aalto.fi/en/services/tenure-track-evaluation-criteria>

The application material will not be returned.

Please submit your application with attachments (in PDF-format) through the eRecruitment system no later than on October 6, 2019 (Finnish time UTC +3)

[https://rekry.saima.fi/aaltohome/application\\_edit\\_welcome.html?job\\_id=2499&field\\_id&place\\_id=107&did=590](https://rekry.saima.fi/aaltohome/application_edit_welcome.html?job_id=2499&field_id&place_id=107&did=590)

From amongst the applicants in the first phase, Aalto University will select those who will be asked to supplement their application materials, and to visit the School of Engineering November 11, 2019.

Aalto University reserves the right for justified reasons to leave the position open, to extend the application period and to consider candidates who have not submitted applications during the application period.

#### Additional Information

For additional information, please contact the Chair of the Departmental Recruitment Committee, Professor Petri Kuosmanen tel. +358 50 0448 481, e-mail [petri.kuosmanen@aalto.fi](mailto:petri.kuosmanen@aalto.fi) or in recruitment process -related questions HR coordinator Merja Seppanen, tel. +358 50 5937 712, e-mail [merja.seppanen@aalto.fi](mailto:merja.seppanen@aalto.fi).

#### Tenure track in Aalto University

The position will be placed on the Aalto University Tenure Track. Individuals on the tenure track have the possibility to advance in their career through regular performance assessments, which take into account their merits in all areas of their scope of duty. Launched only in 2010, the tenure track has attracted a wide range of international applicants, giving Aalto University the possibility of recruiting top experts and young research talent to join the Aalto University community.

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Throughout their careers, those in the academic tenure track system are expected to exercise and guide scientific/artistic research and/or artistic work, to provide related higher academic education, to follow the advances of their field, to participate in service to the Aalto University community, and to take part in societal interaction and international collaboration in their field. For more information on the tenure track system and nomination criteria of Aalto University, please see <https://www.aalto.fi/en/tenure-track>.

#### About Finland and Helsinki area

Finland has a high standard of living, a world leading education system, and a vibrant commercial and cultural life. It enjoys a robust economy and political stability. It has excellent transport links to the major cities of Europe and beyond. Helsinki is one of Europe's leading capital cities and a vivid center of scholarship. As a living and working environment, Finland is consistently ranked highly in quality-of-life and competitiveness studies. More information is available at: <https://www.aalto.fi/en/careers-at-aalto/for-international-staff>

#### EEO/AA Policy

Aalto University has declared to commit to the Principles of the European Commission's Recommendation The European Charter for Researchers and The Code of Conduct for the Recruitment of Researchers. In accordance with its Equality Plan, Aalto University has made a commitment to act as an equal-opportunity employer which makes its recruitment decisions on the basis of competence, skills and aptitude.

#### Contact Information

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

**Contact** Professor Petri Kuosmanen  
Department of Mechanical Engineering  
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Otakaari 4, Espoo  
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**Contact E-mail** firstname.lastname@aalto.fi