

PROFESSOR OF PRACTICE AND RESEARCH FELLOW
IN INFORMATION TECHNOLOGIES FOR FACTORIES
OF THE FUTURE

Aalto University School of Electrical Engineering

Direct Link: <https://www.AcademicKeys.com/r?job=105814>

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| Job Title | PROFESSOR OF PRACTICE AND RESEARCH FELLOW IN INFORMATION TECHNOLOGIES FOR FACTORIES OF THE FUTURE |
| Department | Department of Electrical Engineering and Automation http://eea.aalto.fi/en/ |
| Institution | Aalto University School of Electrical Engineering Helsinki, , Finland |
| Date Posted | Apr. 16, 2018 |
| Application Deadline | May 20, 2018 |
| Position Start Date | Available immediately |
| Job Categories | Faculty Associate Research Scientist/Associate Professor |
| Academic Field(s) | Electrical and/or Electronics Computer Engineering Engineering - Other |
| Job Website | http://www.aalto.fi/en/about/careers/jobs/view/1828/ |
| Apply Online Here | http://www.aalto.fi/en/about/careers/jobs/view/1828/ |
| Apply By Email | |
| 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 campuses are located in Espoo and Helsinki, Finland.

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Aalto University Department of Electrical Engineering and Automation invites applications for positions:

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The Aalto Professor of Practice (PoP) system provides departments with the possibility to hire highly respected professionals for opening new areas of research, education and professional work. The position also provides possibility for re-evaluation and dynamic development of the field. The candidate will be appointed for a full time/part time, 5-year fixed-term position. The position will begin during the year 2018.

Research Fellow is an academic position with predominant involvement in research and to some extent in teaching. The candidate will be appointed for a full time/part time 5-year fixed-term position.

Only one of the two positions will be filled based on the qualifications of the most suitable candidate.

Research field description

We seek experts in the field of factory automation, in particular, in information technologies for factories of the future. The group of Information Technologies in Industrial Automation, which is located at the Department of Electrical Engineering and Automation in the School of Electrical Engineering, is focusing on the information technologies and software engineering enabling the shift to future intelligent production systems that are flexible, reconfigurable and adaptive. The focus is on the development of software architectures supporting automation systems based on the Internet of Things, Cyber-Physical Systems and Artificial Intelligence.

The research and teaching in Information Technologies for Factories of the Future includes research topics such as distributed software architectures in automation (RAMI4.0, IEC 61499, OPC-UA), wired and wireless communication standards for automation, software and system engineering for automation, flexibility and re-configurability enablers: multi-agent systems, knowledge engineering, reasoning and self-configuration.

Requirements

We are looking for an enthusiastic researcher who is ready to propose and implement novel ideas of organisation of production systems and in particular formulate requirements of key enabling information technologies. A successful candidate is expected to have solid understanding of the modern trends in industrial automation and its development towards intelligent factories of the future, along the lines of agendas such as Industry 4.0.

It is expected that the candidate will make a strong contribution to the development of Aalto Factory of

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the Future Demonstrator being developed as a part of Aalto Industrial Internet Campus in collaboration with Aalto research groups and with support of key industries.

The successful candidate, especially in the professor of practice position, is expected to develop and maintain a leading research programme, to teach undergraduate and graduate courses, and to participate in department, school and/or university service and outreach activities. For both positions, a doctoral degree in electrical engineering, computer science or in a related field, and notable expertise in research and professional work are required. In addition, the applicant's experience in an expert or management role in industry or in public sector will be taken into account in the evaluation of his/her competence. Strong research or industrial expertise is expected in one or several areas, such as flexible manufacturing, artificial intelligence, software and ICT architectures for automation, distributed systems, cyber-physical systems.

Salary

Aalto University follows the salary system of Finnish universities, but applicants may also provide salary requirements.

How to apply

The application materials should include the following:

- Cover letter
- Curriculum Vitae (with contact information)
- List of publications in which the 5 most significant publications are highlighted
- A research statement describing past research and plans for future research
- A teaching portfolio describing teaching experience and plans for teaching
- Possible referees

All material should be submitted in English and must be in standard .pdf format. Submit the application online through recruitment system via link <http://www.aalto.fi/en/about/careers/jobs/view/1828/>, no later than May 20, 2018. Remember to indicate the position you are applying for; Professor of Practice or Research Fellow.

Aalto University reserves the right for justified reasons to leave the position open or to extend the application period.

Additional Information

For additional information, please contact Professor Valeriy Vyatkin [valeriy.vyatkin\(at\)aalto.fi](mailto:valeriy.vyatkin@aalto.fi) or in recruitment process related questions HR Coordinator Jaana Hänninen, [jaana.hanninen\(at\)aalto.fi](mailto:jaana.hanninen@aalto.fi).

Department of Electrical Engineering and Automation

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The Department of Electrical Engineering and Automation (EEA) of the Aalto University School of Electrical Engineering is an ecosystem where scientists and engineers from different fields interact and work together by crossing over traditional boundaries to solve the most challenging scientific and technological problems, to provide excellent education and to produce wellbeing for the society. Research in EEA is organized in four focus areas, Power systems and conversion; Control, robotics and autonomous systems; Well-being and smart living environment; Industrial electronics and informatics.

Because of the interdisciplinary nature, the EEA partner network covers a large share of Finnish and international industries from the energy sector to manufacturing industries, including many machinery production companies, medical sector, cities and public organizations, and service providers. There have been several spin-off companies utilizing the research results. (<http://eea.aalto.fi/en/>)

Living up to our values

As a community of high ethics, we want to assure the highest international standard in research, education and teaching. We expect all our community members to respect Aalto values and follow the ethical principles of fair play and integrity in all our activities and the behaviour that we expect from each other. Aalto University Code of Conduct is applicable to all Aalto community members and it clarifies the values that guide us.

Contact Information

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

Contact Professor Valeriy Vyatkin
Department of Electrical Engineering and Automation
Aalto University School of Electrical Engineering
Maarintie 8, Espoo
Helsinki
Finland

Contact E-mail `firstname.lastname@aalto.fi`