# Job Delft University of Technology - Associate Professor of Embedded Software

Associate Professor of Embedded Software

## Specifications - (explanation)

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| Location | Delft |
| Function types | Professors, associate professors, assistant professors and lecturers |
| Scientific fields | Engineering |
| Hours | 38.0 hours per week |
| Salary | maximum € 6349 |
| Education | Doctorate |
| Job number | EWI2017-03 |
| Translations | en |
| About employer | Delft University of Technology (TU Delft) |
| Short link | www.academictransfer.com/38747 |

Apply for this job within 31 days

## Job description

The Embedded Software group wishes to hire a talented Associate Professor who has the capability of becoming a full Professor in the near future, to strengthen the group's research and teaching activities. The responsibilities of the new faculty member include:
• Developing a new line of research, acquiring externally-funded projects, supervising the PhD students and post-docs involved, and disseminating the results to the outside world.
• Teaching and developing new education in the area of (embedded) computer systems at the undergraduate and graduate levels, including the supervision of bachelor and master students in their graduation projects.
• Transferring knowledge and technology to external parties; performing management tasks at group and department level.
The field of embedded systems has shown a remarkable growth resulting from the miniaturisation of the digital electronics involved (Moore's law) leading to ever cheaper, smaller, and more powerful platforms. Today's embedded systems no longer operate as standalones, but are equipped with (wireless) communication capabilities. This allows for smart systems; instead of executing a fixed sense-control-actuate loop, devices now have the means to intelligently adapt their behaviour based on data and knowledge captured from various sources. The Internet-of-Things, Smart Cities, and (Cloud) Robotics are examples of domains where such smart devices (will) play a prominent role. The key to unlocking the full potential of smart embedded systems is in the software and algorithms to efficiently control individual devices.

## Requirements

Applicants must have a PhD degree in the broad field of computer systems. The successful candidate has an excellent scientific reputation and has a clear vision on the future of embedded systems. She/he is a team player who does not shy away from an experimental approach, yet has a solid theoretical background to ensure that research outcomes can make a profound impact on the community at large. She/he can lead the people under his/her supervision to perform at the highest international level.

## Conditions of employment

The TU Delft offers a customisable compensation package, a discount for health insurance and sport memberships, and a monthly work costs contribution. Flexible work schedules can be arranged. An International Children's Centre offers childcare and an international primary school. Dual Career Services offers support to accompanying partners. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.
The TU Delft sets specific standards for the English competency of the teaching staff. The TU Delft offers training to improve English competency.
Inspiring, excellent education is our central aim. If you have less than five years of experience and do not yet have your teaching certificate, we allow you up to three years to obtain this.

For more information about this position, please contact Prof. Koen Langendoen, K.G.Langendoen@tudelft.nl. To apply, please e-mail a detailed CV, research and teaching statement, and list of publications along with a letter of application by 30 March 2017 to Ms. P.T.M. van den Bergh, Hr-eemcs@tudelft.nl.
When applying for this position, please refer to vacancy number EWI2017-03.
**Contract type**: Permanent

## Employer

Delft University of Technology

Delft University of Technology (the TU Delft) is a multifaceted institution offering education and carrying out research in the technical sciences at an internationally recognised level. Education, research and design are strongly oriented towards applicability. The TU Delft develops technologies for future generations, focusing on sustainability, safety and economic vitality. At the TU Delft you will work in an environment where technical sciences and society converge. The TU Delft comprises eight faculties, unique laboratories, research institutes and schools.

## Department

Electrical Engineering, Mathematics &amp; Computer Science
The position is situated in the Department of Software Technology (ST), specifically in the Embedded Software group. ST is one of the leading Dutch departments in research and academic education in computer science, employing over 100 people. The ST Department is responsible for a large part of the curriculum of the bachelor's and master's programmes in Computer Science as well as the master's programme in Embedded Systems. The inspiration for its research topics is largely derived from technical ICT problems in industry and society related to large-scale distributed processing, embedded systems, programming productivity, and web-based information analysis.

The Embedded Software (ES) group is led by Prof. K. Langendoen and aims to improve the software development and maintenance process for embedded systems. The ES group includes four additional faculty. One Associate Professor specialises in software-defined networking, and three Assistant Professors are active in areas as diverse as visible light communications, transiently-powered computing, and the tactile Internet. The common denominator is a systems approach in which novel systems are actually designed, built, and evaluated by means of extensive experimentation. The ES group is responsible for the core of the Dutch 4TU MSc programme in Embedded Systems in addition to contributing to the computer science programme (BSc and MSc) at the TU Delft.

## Additional information

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Technische Universiteit Delft