

The Delft Center for Systems and Control of the Delft University of Technology, The Netherlands, announces an open position for an

Assistant/Associate Professor Intelligent Control for Robotics

[Mechanical, Maritime and Materials Engineering](#)

The 3ME Faculty trains committed engineering students and PhD candidates in groundbreaking scientific research in the fields of mechanical, maritime and materials engineering. 3ME is the epitome of a dynamic, innovative faculty, with a European scope that contributes demonstrable economic and social benefits.

[department description](#)

The Delft Center for Systems and Control (DCSC) is a merger of three former systems and control groups within Delft University of Technology: the groups of Electrical Engineering, Mechanical Engineering and Applied Physics. The Center is currently composed of 15 academic staff who supervise around 35 PhD students and 30 MSc students. The teaching and research field encompasses the wide area of modeling, estimation and identification, robust control and optimization of continuous and hybrid dynamical systems. Applications include, but are not limited to, mechatronics and microsystems, robotics, sustainable industrial processes, transportation and traffic control, and physical imaging systems. DCSC is responsible for an international MSc program in Systems and Control, and participates in the BSc and MSc programs in mechanical engineering, electrical engineering, applied physics and chemical engineering. Moreover, the group actively participates in the Dutch graduate school DISC (Dutch Institute of Systems and Control).

The Center is located within the Faculty of Mechanical, Maritime and Materials Engineering of Delft University of Technology, and has extensive laboratory facilities. It participates in the research activities of the Delft Research Centre on Mechatronics and Microsystems and the Roboned platform, which has been established to facilitate the collaboration in the area of robotics within the Netherlands. DCSC maintains cooperative research contacts with many industrial partners. See also DCSC's website: www.dcsc.tudelft.nl

[job description](#)

- Performing and conducting research in the area of intelligent control and nonlinear control for robotics and mechatronic systems, and contributing to the international literature in this area;
- Maintaining and extending a research laboratory in robotics;
- Supervision of undergraduate, MSc and PhD students in their research projects;
- Initiating research projects and seeking financial support from research funding agencies (EU, government, industry);
- Contribution to the teaching activities of the group in undergraduate and graduate courses and labs.

[requirement](#)

The successful candidate has an excellent background in linear and nonlinear systems and control theory, including AI-inspired and bio-inspired approaches, such as reinforcement learning and other machine-learning methods. He or she is able to conduct research according to international standards, proven by international publications and a PhD thesis. Additionally, the candidate has substantial practical experience with the design and development of robotic

systems. He/she is able to develop high quality applications of control in robotics and mechatronic systems, including real-time implementations of design/control strategies in laboratory setups. The candidate is able to effectively cooperate and communicate with colleagues in related fields, including bio-inspired robotics and computer vision (Biomechanical Engineering department) and general AI (Faculty of Electrical Engineering, Mathematics and Computer Science at TU Delft, the University of Amsterdam and other partner institutions).

He/she has a stimulating and cooperative attitude in contacts with students and colleagues and in projects performed in collaboration with other university groups and/or industrial partners. International applicants must be willing to acquire a working knowledge of the Dutch language.

conditions of employment

TU Delft offers an attractive benefits package, including a flexible work week, free high-speed Internet access from home, and the option of assembling a customized compensation and benefits package (the 'IKA'). The offered position is a tenured position, being preceded by a tenure track, dependent on the candidates experience and background. Salary and benefits are in accordance with the Collective Labour Agreement for Dutch Universities.

information and application

Information on this position can be obtained from:

Prof. Robert Babuska, r.babuska@tudelft.nl,

Prof. Paul Van den Hof, p.m.j.vandenhof@tudelft.nl

Interested applicants should send their resume, including names of three professional referees, copies of three significant publications, a personal research statement, and a personal teaching statement before November 15, 2009, to: Application-3mE@tudelft.nl or to Delft University of Technology, Ms. M. de Groot, Faculty 3mE, HR department, Mekelweg 2, 2628 CD, Delft, The Netherlands.

When applying for this position, make sure to mention vacancy number **3ME09-32**.