

Expression of Interest

Call for Expression of Interest for Associate Professor Positions

University of Trento, Department of Industrial Engineering

The Department of Industrial Engineering (DII) at the University of Trento invites expressions of interest in view of the opening of an Associate Professor position in the research field Information Processing Systems (ING-INF/05, according to the Italian legislation).

The Department seeks enthusiastic candidates with a strong background on AI and computer engineering, IoT, Robotics and cyber-physical systems. The hired applicant will primarily work in robotics and its applications to manufacturing and/or health and/or environment. She/he will rely on a collaborative environment, first-class equipment, and solid collaboration links with an active group of faculties working in the area with a wide range of expertise.

Successful candidates for the position are expected to have a strong publication record, an active fundraising track, and the ability to work both independently and collaboratively. The candidates should have a proven record of participation and possibly leadership in research projects.

The Italian *National Scientific Qualification* (ASN) is a necessary requirement to apply for the position. Alternatively, researchers holding a position that is acknowledged as equivalent to Associate Professor are also eligible for the position.

Proficiency in Italian is appreciated but not strictly required.

The Department of Industrial Engineering

The University of Trento has been systematically ranked in the top tier positions in the Italian national Research Assessment Evaluations of the past 10 years.

The Department of Industrial Engineering, founded in 2012, covers the main research topics of interest for modern industries. It actively promotes education and research across interdisciplinary areas. The Department is a vibrant environment with 65 faculties, several of its members have held previous positions outside Italy in universities or multi-national corporations.

The Department of Industrial Engineering (DII) is one of the departments receiving the excellence award grant by the Italian Ministry of University and Research (MUR) for both the calls 2018-2022 and 2023-2027. With each one of these two awards, the Department has received extraordinary funding of more than 6.6M Euros and 7.3M Euros respectively, aimed at recruiting researchers, purchase of top-level research equipment and funding PhD scholarships.

Research Areas

The research activities at DII hinge upon a network of connections at the international level, and have three main objectives: fundamental research, knowledge transfer, and technology transfer. The Department focuses on research and education in the following disciplines: mechanics, mechatronics, materials engineering, electronic and micro-electronic systems, robotics and automation, information management systems, optimization methods and models to support decision making.

The Department expects the successful candidates to contribute significantly to the research outcomes in one or more of the following areas, or related ones:

- Embedded Intelligence and Robotics Systems
- Robotics Perception
- Deep and Structured Machine Learning
- Tiny Machine Learning
- Reinforcement Learning
- Numerical Optimization and Optimal control for Robotics

Opening of new areas of research is also highly encouraged.

Teaching

The Department offers top-ranked MEng, and PhD programs in areas of interest for industries taught exclusively in English and designed for an international student audience. The Department offers also a double degree MEng program in Autonomous systems within the European Institute of Technology EIT-Digital, of which Trento is a core partner.

Terms and Conditions

Associate professors are expected to teach 120 hrs/year. The position holder will have a personal grant for research/travel expenses. The research group is yearly funded with grants, fully covered by the University, to hire PhD students.

The annual gross salary is about 54k euros. The employer pays social security charges. Medical insurance is included. Italian researchers who have not been resident in Italy in the past two years may benefit of a special tax-exemption.

The position holder will have a 12,000 euros maximum personal grant for research/travel expenses.

Professors may supplement their base salary by industrial consultancies and grants up to 80.000 euro/year.

Application

Expressions of interest in English should include a CV (including a list of publications and a brief description highlighting the five most significant publications), a research statement and a teaching statement (up to two pages each), a cover letter, and the names and addresses of at least three referees.

The shortlisted candidates will be invited in Trento for a presentation and an interview.

Informal inquiries for further information regarding the position can be addressed to:

Prof. Alessandro Pegoretti

Head of the Department of Industrial Engineering

via Sommarive 9, 38123 Trento Italy

alessandro.pegoretti [at] unitn.it.

Applications are welcomed and should be sent to positions.dii@unitn.it, writing **ASSOCIATE PROFESSOR POSITION ING-INF/05** in the subject field.

The deadline for receiving the expression of interest is: **April 30, 2023.**