

Faculty of Science and Technology

Position call: Full or Associate Professorship
Industrial Mechanical Systems Engineering (09/B2 – ING-IND/17)

Position type: Permanent

Profile

The profile of the candidate must fulfil the following criteria:

- **Holder of an equivalent academic position (Full or Associate Professor) at the candidate's current foreign university – "Direct call from abroad" according to the Italian legislation**
- Postdoctoral research in Industrial Mechanical Engineering
- Documented excellent performance in teaching
- Research publications in the top journals and the A/A* class conferences (international and national)
- A good command of two of the three teaching languages of the Free University of Bozen-Bolzano (German, Italian and English) is required

Position

The position offered is at Full or Associate Professor Level in Industrial Mechanical Systems Engineering, and a tenured full-time position with a teaching load of 120 hours/year in the bachelor and/or master courses.

The working place is at the Bolzano Campus.

The position offers a working opportunity in an international team of experts open to collaborate on innovative and cross-disciplinary projects. Also, various funding possibilities (European, provincial, third sector and internal funds) are at disposal. A multilingual working environment and an attractive salary complete the position.

Research directions:

- Industrial Engineering and Automation – IEA
- Lean Management applied to MTO and especially ETO industries
- Predictive maintenance/location based maintenance
- Industrial simulation
- Interdisciplinary topics: Industry 4.0 applied to SMEs

Expected starting date: September 2018

Application procedure

Please send us the documents listed below in hard copy or by e-mail:

- Expression of interest
- Detailed Curriculum Vitae (attachment A – University Academic CV)
- List of publications
- Research statement – Research focus and research projects
- Description of the teaching experience and courses taught, plus final evaluations
- Statement about the current academic position

Application deadline: 31st January 2018

Please note:

- Only applications duly signed and dated on the last page will be accepted and considered as complete
- Only short-listed candidates will be invited for an interview
- The Free University of Bozen-Bolzano aims to increase the proportion of women in research and teaching and therefore strongly encourages female scientists to submit their expression of interest

Mail address:

Free University of Bozen-Bolzano

Faculty of Science and Technology

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More information

Position call: <https://www.unibz.it/en/home/position-calls/positions-for-academic-staff/?group=58&year=2017>

Faculty website: <https://www.unibz.it/en/faculties/sciencetechnology/>

Description

Industrial Mechanical Systems Engineering (09/B2 – ING-IND/17)

The scientific sector of the professorship subject to this call covers the methods and general principles that govern the planning, design, construction and operation of industrial mechanical plants.

Research in this scientific area includes following these main topics: analysis and design of industrial mechanical plants, including the feasibility study, the choice of the location, and the economic evaluation of the initiative, the analysis and the design of general service facilities and of storage and transport, as well as aspects of facility management, ergonomic design, work safety and maintenance.

The main teaching activities will focus on industrial installations and operational safety, and will include courses for the Bachelor in Industrial Mechanical Engineering, offered by the Free University of Bozen-Bolzano.

The professorship is intended to develop an interdisciplinary approach, interacting with colleagues of production systems, structural mechanics and technical physics. The ability to start or support networking with national and international research institutions is appreciated.

About the Faculty of Science and Technology

We are a young and fast growing faculty with a strong multidisciplinary and multinational dimension. In our staff we have nationally and internationally recognized experts.

We have a solid network of international collaborations and high-end research facilities, are expanding in many directions and open for new ideas.

New challenges are our daily routine and therefore people who like innovation and strive for top scientific goals are a good match with our culture.

Our main areas of interest are industrial engineering and automation, energy resources and energy efficiency, fundamental sciences for innovative applications, agricultural production and food technologies and dynamics and management of mountain ecosystems.

Those areas are further subdivided into smaller research groups, where scientists work/specialize on some concrete topic of interest.

We teach two bachelor courses, five master courses and two PhD study programs, and the number of courses is going to expand.

We carefully choose our academic personnel by hiring prominent scientists from abroad as guest/contract lecturers or tenured professors. We are a vital part of one of the world's rare universities that offers their students lectures in three languages of tuition, and, upon the conclusion of the study program, a trilingual qualification in English, German and Italian.

Both our students and professors are provided with the support of the Language Centre of the University. It helps them in finding the right method for the study of the language of interest and in achieving the desired level of language proficiency through its courses and language counseling.

Finally, it offers a preparation for internationally recognized language certificates. We further encourage our academics to improve their language skills by incentivizing financially those with B2 and C1 certificates in the second or third language.

Currently, we are participating in 95 research projects with a funding budget of about 17 million Euros. Our work is visible all over the province of Bolzano, as our interdisciplinary and hands-on approach resulted in many fruitful collaborations, with a strong support from the local community. In this context, ideas can be transformed into projects in a matter of months. We firmly believe that our researchers are our greatest asset and a competitive advantage on a market thirsty for innovation: responding to real life problems with the respect for the environment, creating eco-sustainable solutions and using the expertise from many scientific areas in getting a problem solved is what we are committed to.