English text for advertised professorship

The Alpen-Adria-Universität Klagenfurt (AAU) and the Graz University of Technology (TU Graz) seek to appoint a Full Professor of Adaptive and Networked Production Systems (with a focus on Informatics) on a full-time five-year contract in accordance with the provisions of § 99 Austrian Universities Act. Employment is expected to commence on the 1st of July 2018. The Development Plan of the Alpen-Adria-Universität Klagenfurt allows for the subsequent appointment of a full professor on a permanent contract (100%), in line with the provisions of § 98 Austrian Universities Act. This appointment shall be contingent upon an evaluation and the statutory recruitment procedure.

The objective of this professorship is the accomplishment of outstanding research and teaching contributions to the development of autonomous, adaptive, resource-efficient and networked production systems drawing upon methods offered by Informatics, Information and Communication Technology, and quantitative production management methods. The successful candidate is expected to link the respective innovation approaches pursued at both universities, and will significantly advance joint research efforts in the area of Industry 4.0 as well as the development of future production systems. In terms of organisation, the advertised position will be assigned to both universities (80% assignment to AAU and 20% assignment to TU Graz).

The methodological research focus of the professorship shall encompass the fields Multi Agent Systems, Machine Learning, Automated Planning, and Autonomous Adaptive Systems. Furthermore, candidates are required to demonstrate the successful applicability of their approaches to problem-solving in production or supply chain networks.

The five-year start-up funding provided for the professorship by the industrial sector and by the Private Foundation of the Kärntner Sparkasse serves to underline the significance of this university-level expansion for the ongoing development of the Austrian economy. The budget provides for a generous resource allocation, allowing for 5-6 members of scientific staff. The professorship is embedded within an excellent academic environment, which comprises

- 16 research groups, which focus on the foundations of and applications for the production systems of the future,
- the Smart Factory of the TU Graz and
- the Lakeside Labs for Self-Organizing Networked Systems of the AAU.
This environment ensures a comprehensive interdisciplinary research infrastructure that firmly connects the disciplines of Informatics, Business Management, Mathematics, Mechanical Engineering and Electrical Engineering.

With more than 30,000 students enrolled at the AAU and TU Graz overall, the southern part of Austria is a young, vibrant and innovative region, located at the intersection of Alpine and Mediterranean culture in an area that offers the highest quality of life. Major international corporations and lastingly successful medium-sized businesses operating in the area of production represent the economic backbone of this region.

The successful candidate will have an exceptional academic record with an internationally recognised research profile, and will be capable of enthusiastically representing the field of “adaptive and networked production systems” in research and teaching, establishing an ambitious and forward-looking research programme, and safeguarding the transfer of research findings to operational practice.

**Duties and responsibilities:**

- to represent the field of “adaptive and networked production systems” in research and teaching, focusing on Multi Agent Systems, Machine Learning, Automated Planning and Autonomous Adaptive Systems as well as their applications in the sphere of production and in the area of supply chain networks
- to develop and teach courses in German and in English at Bachelor, Master and Doctoral Degree Programme level in the fields of Applied Informatics, Applied Business Administration, Software Development and Business Management, Information Technology, Information and Computer Engineering, as well as Information Management
- to establish and continuously develop the range of courses offered in degree programmes, in the catalogues of elective subjects and in university certificate programmes pertaining to the scientific discipline with particular emphasis on Industry 4.0
- to provide professional expertise and didactic support to students at all qualification levels (including doctoral students)
- to promote and train young academics
- to develop and expand internationally visible research expertise and capacity in the scientific discipline
- to develop an internationally recognised centre for autonomous, adaptive and networked production systems in the sphere of Industry 4.0
- to initiate and manage cooperation arrangements within the scientific discipline, across faculties, and at the national and international level
- to acquire, implement and manage competitive third party funded projects as well as cooperation arrangements with industry
- to achieve the effective transfer of research results to the practical industrial setting
- to participate in university management
- to contribute to addressing questions concerning the societal consequences brought about by Industry 4.0
Required qualifications:

- habilitation or equivalent qualification in Informatics or in a related discipline
- outstanding scientific track record and publications in the professorship’s area of research
- scientific papers considering the design and the implementation of algorithms
- documented university teaching experience
- proven experience of cooperation with industry in the specialist field
- experience in project development and in the acquisition of third party funding
- leadership and management skills as well as the ability to work well in a team

The AAU and the TU Graz are committed to increasing the number of women among the academic staff, particularly in high-level positions, and therefore specifically invite applications from qualified women. Among equally qualified candidates, women will receive preferential consideration. Furthermore, the universities actively promote the compatibility of work and family life. Dual career services and relocation assistance facilitate the smooth and rapid integration into the new living and working environment.

Both universities actively endeavour to promote diversity and equal opportunities. Candidates taking part in selection procedures may not be discriminated against on the basis of their gender, ethnicity, religion or beliefs, age, or sexual orientation (anti-discrimination). People with disabilities or chronic diseases who meet the required criteria are explicitly invited to apply.

Please submit your application by e-mail, consisting of a “principal part” (max. 5 pages; for further guidance see www.aau.at/jobs) as well as an appendix with additional information, including a detailed curriculum vitae and a comprehensive list of publications, to the Alpen-Adria-Universität Klagenfurt, Office of the Senate, f.a.o. Ms. Sabine Tomicich (sabine.tomicich@aau.at) no later than 11th March 2018.

For further information, please refer to the AAU’s general information for applicants (www.aau.at/jobs/information) and the relevant TU Graz website (www.tugraz.at/go/professorships-vacancies/). Please address any specific questions concerning the professorship to the Dean of the Faculty of Technical Sciences in Klagenfurt, O. Univ.-Prof. Dr. Gerhard Friedrich (Tel: +43 463 2700 3752, gerhard.friedrich@aau.at).

Travel and accommodation expenses incurred in connection with the appointment procedure cannot be reimbursed.