

The Universität Klagenfurt is seeking to make the following appointment:

PostDoc-Researcher

at the **Institute of Smart System Technologies**, Faculty of Technical Sciences, **Sensors and Actuators Group** (Uni-KV: B 1 lit. b, www.aau.at/uni-kv). The minimum gross monthly salary for this assignment amounts to € 3.803,90 (14 x p.a.) and can increase in accordance with the provisions of the collective agreement in the case of consideration of previous occupational experience. The position offers an option on an objective agreement with a subsequent permanent contract as a senior scientist. The scheduled start of the initially temporary employment for a period of six years is **as soon as possible**.

Duties and Responsibilities:

- Independent research with the aim to achieve a “Habilitation”
- Contributing to the tasks of the Institute in research of the research group "Sensors and Actuators" in collaboration with national and international partners
- Student mentoring; assistance in PhD student supervision
- Contribution to the teaching activities of the institute
- Participation in administrative and organizational tasks of the Institute and in University committees
- Assistance in public relations activities of Institute and faculty

The Faculty of Technical Sciences was founded in 2007 and is home to the three departments of information and communication technology, computer science and mathematics, with currently 18 professors and 11 associate professors. The common research focus is in the area of "**Networked and Autonomous Systems**" with applications such as robotics and multi-UAV (Unmanned Aerial Vehicle) systems, smart grids, transportation systems, intelligent automation and production systems or telecommunications.

In the "Sensors and Actuators" Group, we seek to push the current bounds in sensor design and optimization, autarkic wireless sensors, sensors in robotics and near field sensing. The group publishes in international top journals and conference proceedings. Successful applicants will be encouraged and supported to publish their work in such journals and proceedings and will have the opportunity to cooperate with our world renowned international partners from science and industry. Our network comprises partners in Europe, North and South America, Australia and Asia. We specifically encourage and support close and open collaboration with our peers both internationally and at the University. Our teaching areas encompass measurement systems theory, statistical signal processing, robust design and reliability and sensors in robotics and autonomous systems. Our young research group provides a highly dynamic and friendly attitude and thus a collaborative and inspiring work environment with highly modern infrastructure, which is continuously updated and upgraded.

Recruitment conditions:

- A PhD degree in the field of electrical engineering, information technology, computer science or alike, graded with excellent academic success and corresponding knowledge in the field.
- Proven expertise in the fields
 - Sensors/Actuators in robotics,
 - design, modeling and optimization of sensor systems,
 - programming skills in Matlab, Scilab, Octave, SciPy, R, Python, ROS or similar environments.
- Publications in scientific journals and conferences in the field of the position.
- Fluent in English both spoken and written.
- Social and communication skills, ability to work independently.

Certificates etc. with respect to recruitment conditions have to be provided by **December 31th 2019** latest, yet at least 14 days before the scheduled start of the employment.

Additional Qualifications:

- Scientific publications in highly ranked journals.
- Experience and/or interest in at least one of the following fields:
 - Additive manufacturing
 - Sensors and actuators in robotics
 - Wireless sensors/actuators, energy management, energy harvesting
 - Statistical methods (Estimation theory, detection theory, reliability)
 - Modelling of sensors and actuators, e.g. with Finite Elements
 - Analog and digital signal processing
- Experience in teaching and research at a university
- Experience in writing of scientific project proposal

The Alpen-Adria Universität Klagenfurt intends to increase the number of women on its faculty, particularly high-level positions, and therefore specifically invites applications by women. Among equally qualified applicants women will receive preferential consideration.

People with disabilities or chronic diseases who are qualified are explicitly invited to apply.

General information can be obtained on this website www.aau.at/en/jobs/information. Additional information about the research group Sensors and Actuators can be found on this website: <https://www.aau.at/sat/> or by contacting Professor Hubert Zangl (hubert.zangl@aau.at, Tel.: +43 463/2700-3562).

If interested apply with the usual documents until **October 16th 2019**. Applications are only accepted through the online portal <https://jobs.aau.at/en/joblist>, using the button “Apply for this position” next to the position with **reference code 619/19**

The University of Klagenfurt will not reimburse applicants’ travel and lodging expenses incurred as part of the selection and/or hiring process.