The University of Klagenfurt, with approximately 1,500 employees and over 12,000 students, is located in the Alps-Adriatic region and consistently achieves excellent placements in rankings. The motto "per aspera ad astra" underscores our firm commitment to the pursuit of excellence in all activities in research, teaching and university management. The principles of equality, diversity, health, sustainability and compatibility of work and family life serve as the foundation for our work at the university.

The University of Klagenfurt and Silicon Austria Labs GmbH have jointly established the **Ubiquitous Sensing (USE) Lab** and are pleased to announce the following open position, with an expected starting date of **January 1, 2023**:

Senior Scientist (all genders welcome)

for Networked Sensing, Sensor Fusion and Virtual Sensing

Level of employment: 100 % (40 hours/week)
Minimum salary: € 56,861. -- per annum (gross); classification according to collective agreement: B1 lit. b
Limited to: December 31, 2023
Application deadline: October 26, 2022
Reference code: 594/22

Tasks and Responsibilities:
- Contribution to the research of the USE Lab in collaboration with national and international partners
- Contribution to the preparation of research proposals
- Student mentoring and assistance in PhD student supervision
- Participation in administrative and organisational tasks of the USE Lab
- Assistance in public relations activities of the USE Lab

The USE Lab will be Austria's main research lab in ubiquitous sensing, tackling major research challenges including:
- Seamless integration in the environment
- Autonomous and networked data collection and information extraction
- Ease of usage, versatility, and dependability

The USE Lab is organized in four research tracks and will address both hardware and software aspects focussing on model-based approaches for multi-sensor fusion, adaptive operation, auto calibration, self-diagnosis and methods for the fast development and verification of advanced sensor systems which include the exploitation of advanced signal processing and machine learning techniques. This involves basic and application oriented interdisciplinary research to offer industry accelerated market entrance possibilities for innovative ideas e.g., in the fields IoT (Internet of Things) and I4.0 (Industry 4.0).

We are soliciting applications for research track #3 **Networked Sensing, Sensor Fusion and Virtual Sensing,** which covers the following topics: Resource-aware in-network processing and analytics of homogeneous and heterogeneous sensor data; multi-sensor and multi-modal fusion; self-calibration, self-organization and resource management in networked sensing systems; methods for resource-aware data distribution and virtual sensing in sensor networks. *Track leader*: Prof. Bernhard Rinner.

The USE Lab is part of the Faculty of Technical Sciences at the University of Klagenfurt. The faculty was founded in 2007 and hosts the departments of information and communication engineering, computer science and mathematics among others, and has close to 30 professors. The USE Lab further contributes to the university's key research strength ***"Networked and Autonomous Systems"*** covering various fundamental research topics as well as deployments in applications such as robotics and multi-UAV (Unmanned Aerial Vehicle) systems, smart grids, transportation and communication systems, and intelligent automation/production systems.

Silicon Austria Labs GmbH (SAL) was founded in 2018 with the aim to become a top European research centre for Electronic Based Systems (EBS). EBS are components, assemblies and devices with micro-electronics and nano-electronics, as well as embedded software. They are the technological backbone of digitization. In order to follow its mission and pursue cutting edge research for EBS and to address the challenges arising in this field, SAL has jointly established the Ubiquitous Sensing (USE) Lab together with the University of Klagenfurt.

Prerequisites for the appointment:
- Doctoral degree in electrical engineering, physics, information and communications engineering, computer science or a related field completed at a domestic or foreign higher education institution
- Proven knowledge and extensive experience in the respective field
- High quality scientific publications in the field of the position
- Fluency in English (spoken and written)
- Social and communication skills and ability to work independently

Additional desired qualifications:
- Scientific publications in highly ranked journals
- Experience and/or interest in the topics of the research track
- Experience in academic teaching and student supervision
- Experience in writing research proposals
- Knowledge of German

Our offer:
The employment contract is concluded with a starting salary of € 4,061.50 gross per month (14 times a year; previous experience deemed relevant to the job can be recognized).

The University of Klagenfurt also offers:

- Personal and professional advanced training courses, management and career coaching
- Numerous attractive additional benefits, see also https://jobs.aau.at/en/the-university-as-employer/
- Diversity- and family-friendly university culture
- The opportunity to live and work in the attractive Alps-Adriatic region with a wide range of leisure activities in the spheres of culture, nature and sports

The application:
If you are interested in this position, please apply in English providing the following documents:

- Letter of application (motivation letter)
- Curriculum vitae including publication and lecture lists as well as details of research and teaching activities carried out
- Certificates/Transcripts that can prove that you meet the requirements

To apply, please select the position with the reference code **594/22** in the category "Scientific Staff" using the link "Apply for this position" in the job portal at jobs.aau.at/en/.

Candidates must furnish proof that they meet the required qualifications by **October 26, 2022 at the latest**.

For further information on this specific vacancy, please visit the website use.aau.at or contact Professor Bernhard Rinner (bernhard.rinner@aau.at, Tel.: +43 463 2700-3671). General information about the university as an employer can be found at https://jobs.aau.at/en/the-university-as-employer/. At the University of Klagenfurt, recruitment and staff matters are accompanied not only by the authority responsible for the recruitment procedure but also by the Equal Opportunities Working Group and, if necessary, by the Representative for Disabled Persons.

The University of Klagenfurt aims to increase the proportion of women and therefore specifically invites qualified women to apply for these positions. Where the qualification is equivalent, women will be given preferential consideration.

People with disabilities or chronic diseases, who fulfil the requirements, are particularly encouraged to apply.

Travel and accommodation costs incurred during the application process will not be refunded.

Translations into other languages shall serve informational purposes only. Solely the version advertised in the University Bulletin (Mitteilungsblatt) shall be legally binding.