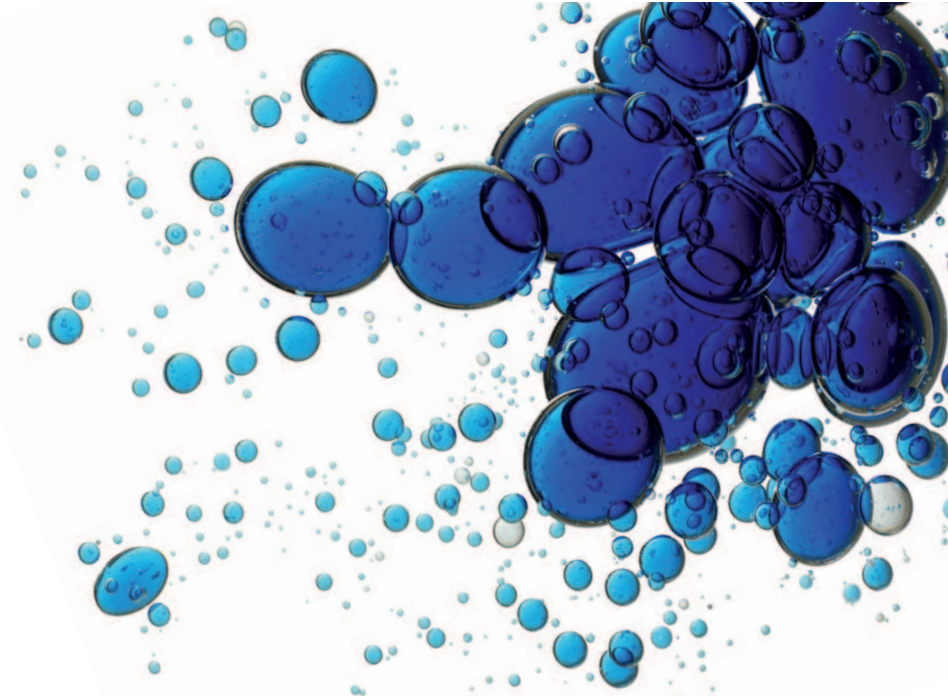


Lakeside Labs

Lakeside Labs is a university-affiliated research lab on information and communication technologies. Our mission is to develop concepts, technologies, and algorithms for **self-organizing networked systems**.



For our second stage of expansion, we are looking for:

- Senior research staff members (Postdocs)
- Research staff members (PhD students)
- Management and administrative staff members
- Visiting researchers

with interest in one or more of the following research areas:

- Design and architecture of self-organizing systems
- Wireless communications and networking
- Collaborative sensing and context recognition
- Embedded systems and signal processing
- Networked control systems
- Traffic management
- Artificial intelligence and decision support
- Distributed time synchronization
- Hardware and software prototyping
- ICT for automotive safety
- ICT for disaster management

Candidates applying for a researcher position should be highly motivated to publish in high-tier journals and conferences and to attract funding from external sources.

Candidates for a senior researcher position must have an excellent track record of publications and should have proven leadership and management skills.

Lakeside Labs is located at the Lakeside Science & Technology Park, adjacent to the university campus and international IT companies. We offer competitive salaries coupled with a nice working atmosphere in beautiful southern Austria. Our business language is English.

Applicants should submit their documents as a single pdf file to applications@lakeside-labs.com.

The documents should include a letter of interest, curriculum vitae, academic certificates and courses, list of publications, and contact details of two references. Selected candidates will be invited for interviews.

Lakeside Labs is committed to increasing representation of female and international staff members and particularly encourages applications from such candidates.

The Faculty of Technical Sciences of Klagenfurt University consists of 20 research groups and offers master and PhD programs in information technology, informatics, and technical mathematics.

In the project **Collaborative Microdrones** a network of unmanned aerial vehicles fly over the area of interest to deliver high-quality sensor data to a disaster management team. Research includes autonomous flight formation, collaborative sensing and sensor fusion, wireless networking, multi-robot control, and mission planning. We are looking for one senior researcher and four researchers with expertise in at least one of these fields.

A **Self-Organized Traffic Light Control system** will be developed, modeled, simulated, and experimentally validated in a city. We are searching for one senior researcher and two researchers with great interest in adaptive traffic management and good background in traffic engineering, control theory and systems, or intelligent visual sensors.

We are designing and evaluating a self-organized algorithm for **Time Synchronization** in wireless networks. We are looking for a researcher with background in wireless networking, communications, distributed algorithms and/or dynamic systems with interest in theory and prototyping.

The FWF-funded project **Time-Triggered Communication Architecture for Autonomous Mobile Robots (TTCAR)** develops innovative methods for networks of mobile robots. We are looking for a researcher with great interest in wireless communication, self-organizing systems, robotics, and robot simulation.

In the project **PowerDCDC**, we are focusing on highly integrated power management solutions. We are looking for two researchers with background in analog and mixed signal design as well as in advanced controller strategies and design for power management units for embedded applications.

The project **Command and Control Decision Support and Advisory System** studies methods and algorithms to support decision making and resource optimization in disruption and crisis management. Special emphasis is put on re-planning in case unexpected events. We are looking for a researcher with knowledge in artificial intelligence and decision support. Project communication is partially in German.

The project **V-Know** studies knowledge acquisition in groups of individuals with different skills and background knowledge. Research topics include reasoning-methods based on conflicting opinions and self-maintenance of knowledge-bases. A researcher position is available in the areas of artificial intelligence, Web 2.0, and semantic web systems.

The EU Interreg project **Tri-ICT** has the major objective to improve the economic relations and competitiveness of the Italy-Austria borderregion by increasing SME collaboration capacity. We are looking for an expert in technology transfer and research management with project management experience.

