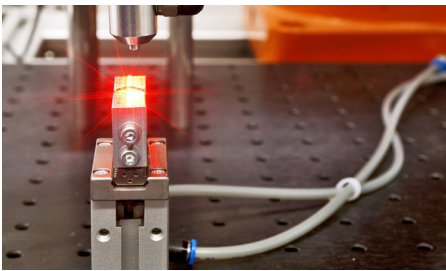
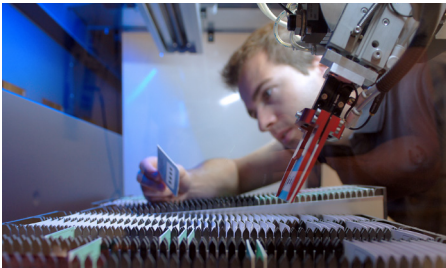


COMPETENCIES



The **ILT Institute for Lab Automation and Mechatronics** is an institute of the HSR Hochschule für Technik Rapperswil, University of Applied Sciences of Eastern Switzerland. The focus of the ILT is applied research and development in the interdisciplinary field of mechatronics. Thanks to its systematic approach, the ILT supports its partners throughout the entire innovation process of mechatronic systems: from feasibility study to pilot production.

Laboratory Automation

- Development of instruments and technology for the automated execution of processes and analyses in the life science and diagnostic sector
- Conception and realisation of complex processes in the demanding field of lab automation

Robotics

- Development and realisation of integral robotic systems
- Support for companies in evaluating robotic technology and implementing collaborative robotic solutions
- State-of-the-art industrial robot platforms and tools

Medical Engineering

- Development and optimization of devices for applications in the rehabilitation and medical technology
- Development of innovative medical assistance systems
- Close collaboration with physicians and therapists

Mechatronics

- Development of mechatronic systems with integrated sensors, actuators and control
- Sensor data processing and interpretation for real-time automation, quality assurance and control
- Image processing to fulfill highest requirements in process quality and safety of automated systems

Cyber-Physical Systems

- Development of sensor-supported components and their integration into the industrial, productive environment such as Internet of Things IoT, Industry 4.0
- Development of network-enabled devices that interact with their environment and with each other.
- Realisation of «pervasive/ubiquitous computing»-capable components and devices

CONTACT



Prof. Dr. Agathe Koller
Head of ILT
Tel +41 (0)55 222 49 29
agathe.koller@hsr.ch



Prof. Dr. Christian Bermes
Partner of ILT
Tel +41 (0)55 222 47 12
christian.bermes@hsr.ch



Prof. Dr. Dejan Šeatović
Partner of ILT
Tel +41 (0)55 222 47 04
dejan.seatovic@hsr.ch