



inspire AG is the leading Swiss competence center for product innovation and advanced manufacturing. As a strategic partner of ETH Zurich, our mission is to transfer knowledge and technology from research to Swiss machine, electrical, and metal industries.

The research group **Industrial Automation and Robotics** at inspire / ETHZ offers the following position:

Senior Software engineer industrial robotics and automation @ inspire / ETHZ

The Industrial Automation and Robotics Group at inspire/ETHZ is a multidisciplinary team of dedicated and talented researchers and engineers that tackles long-standing problems in industrial automation by focusing on a handful of interconnected initiatives.

We are looking for a smart, motivated, and collaborative senior engineer who loves solving hard problems and wants to make an impact. You will have full ownership of challenging problems and initiatives, working with a team of enthusiastic people with diverse perspectives to design and produce solutions that enable us to move towards our goals at a rapid pace.

Responsibilities:

- Develop reliable software tools/modules solutions that are used across the group
- Build prototypes to test key design concepts and quantify technical constraints
- Deep dive into your users' problems to find and create efficient solutions
- Bring your voice to the table in team collaborations on architecture, design, and code reviews

Basic Qualifications:

- Bachelor's degree in computer science, engineering, math, or science discipline AND 5+ years of experience in software development
- Experience in full-stack development

Preferred Qualifications:

- Proficient in Python, good skills in C++
- Hardware integration (sensors, actuators, and hardware systems)
- Designing and building hardware-based distributed systems (IOT-applications)
- Experience in applying a wide variety of numerical methods (from optimization to differential equations)
- Experience in custom algorithm development
- High-Performance Computing, especially in soft-real-time systems and code acceleration in C++
- Building data processing pipelines, preferably MLOps
- DevOps: Software design and automated testing (conducting, and reviewing), Set-up build pipelines
- Sysadmin: Cluster administration (VMware vSphere), Network administration, Linux / Windows

Please send your application to Ivo Aschwanden Head of Industrial Automation and Robotics (aschwanden@inspire.ethz.ch). Please also visit our websites www.inspire.ethz.ch and <https://advanced-manufacturing.ethz.ch/>.