inspire AG is the leading Swiss competence centre 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 Intelligent Production Systems at inspire is based in Lugano, the southern part of Switzerland.

AI Engineer for Manufacturing

Our research group focuses on the development of AI algorithms for industrial applications. The main scope of our activities is the optimization and automation of workflows and production systems. Within this field, we are continuously developing and adopting various algorithms for multiple applications such as automating quality control, detect process deviations and finally predict the resulting product quality of the production systems.

Moreover, we are working towards technical Large Language Models, where we are looking for a solution oriented and highly motivated engineer. Your competences coupled with a can-do attitude enable you to resolve challenging problems with an industrial relevance.

The first main goal of your work will be to explore and develop algorithms in the field of generative AI to automatically process technical data sheets and generate the relevant information for an innovative and sustainable spare parts platform. The research project is part of a collaboration with a manufacturing company and requires a good understanding of AI algorithms and their effective deployment.

Your Tasks

- Conduct research and development in the field of generative AI algorithms for manufacturing
- Collaborate with an interdisciplinary team to transform research results into innovative solutions
- Develop high-quality code and build the basis for our industrial AI platform
- Design methods, tools, and infrastructure for the efficient and effective deployment
- Continuously follow the advancements and implement novel approaches
- Collaborate with industrial and academic partners

Required qualifications & experiences

- University degree or PhD in computer science or engineering with a focus on data science/AI
- Proficiency in Python and at least one further programming language such as C# or C++
- Proven track record in the field of AI
- Experience with Large Language Models is a plus
- A good knowledge (written/oral) of English is mandatory. Knowledge of Italian and/or German will be an additional advantage
- CH/EU/EFTA citizenship or a valid work permit for Switzerland

We offer

- Full-time position at the forefront of AI for manufacturing
- Exciting topics and projects between academia and industry
- A flexible working culture with a self-organized job execution
- Participate at conferences, workshops and exhibitions
- Guidance and internal training provided by experienced professionals to enhance your professional growth

Please send your full application (cover letter, transcripts, CV, references) with reference "AI engineer for Manufacturing" to our HR department Petra Kahl (petra.kahl@inspire.ch).

For technical questions, please contact Daniel Knüttel, Head of Intelligent Production Systems (daniel.knuettel@inspire.ch).