



Curiosity ★ ★ ★ ★ ★
Agility ★ ★ ★ ★ ★
Drive ★ ★ ★ ★ ★

Come build the autonomous future with us. One humanoid at a time.

As a **Senior Robotics Machine Learning Engineer**, you will join an international and rapidly growing robotics team in Zurich, dedicated to developing a next-generation robotic platform that automates industrial tasks with unmatched precision and intelligence.

We are looking for an experienced and driven Senior Machine Learning Engineer to develop algorithms leveraging generative AI models for intelligent object manipulation. You will play a key role in enabling our robots to interact with the physical world and perform valuable tasks for our customers. Your focus will be on developing algorithms, training methods, and data pipelines to enable new robot skills. You will collaborate with roboticists, controls engineers, computer vision engineers, and software engineers to integrate machine learning models into robust production systems for automating complex industrial tasks. If you're passionate about robotics and machine learning, and excited to solve challenging real-world problems, we'd love to hear from you.

Join our team and help build the next generation of autonomous mobile robots!

Senior Robotics Machine Learning Engineer (f/m/d)

Zürich  80-100%

Key Responsibilities

- Design and develop state-of-the-art machine learning methods for robotic manipulation, with a focus on imitation learning and vision-language-action models
- Develop scalable training data creation and data pipelines to support model training and deployment in production environments
- Collaborate with cross-disciplinary teams to integrate learning-based methods into our robot software stack

This is you

- MS/PhD in Computer Science, Mechanical Engineering, Robotics, or equivalent
- 5+ years of experience in developing and deploying machine learning models, preferably within the robotics domain
- Expertise developing and training generative models for robot control using transformers, diffusion, or flow matching

- Provide technical leadership and mentoring to junior team members, fostering innovation and teamwork

This appeals to you

- Being part of an R&D team with startup spirit in a globally active company
- Working in a multicultural and interdisciplinary environment
- Engineering and development from prototype to innovative serial production
- Active and hands-on development of robotic manipulation systems
- Team-oriented problem-solving and creative thinking to push the boundaries of cutting-edge technologies

- Experience deploying machine learning algorithms on robotic hardware for online inference
- Proficiency in machine learning frameworks such as PyTorch, TensorFlow, or JAX
- Solid programming skills in Python; experience with C++ is a plus
- Knowledge of robotics frameworks and tools (particularly ROS2, Omniverse) and ability to work closely with robotic control and perception teams
- Proficiency in English required, basic German skills advantageous

We offer you

- Flexible annual working hours based on a 40-hour week, with 100% employment
- Vacation entitlement: 25 days from the age of 20, 27 days from the age of 40 and 30 days from the age of 50
- Hybrid working model
- Extra-mandatory pension fund contributions
- Competitive salary and generous bonus system
- Individual training opportunities (internal and external)
- Relocation service
- Various discounts (Health, Car, Entertainment and much more)
- Employee events
- Warm and international corporate culture based on respect and cooperation

About Us

Hexagon is a leading provider of digital reality solutions and employs more than 24,000 people in 50 countries. You will be part of a strong, experienced, inspiring and motivated team of experts driving the future of Hexagon. You will use and develop your skills in our highly innovative and diverse environment. Flexible working models allow you to ideally combine work and private interests.

Contact

If you have any questions, please do not hesitate to contact [David Rank](#), Senior Recruiter / Junior HR Generalist.

APPLY NOW

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