

## Open Position

# Electric Drive Specialist

ANYbotics AG is an ETH Zurich spin-off developing new solutions for mobile robots. Optimized electric drive joints enable our quadruped robot to run, climb, and move in challenging terrain while state-of-the-art perception sensors provide the ability to autonomously navigate and inspect environments such as industrial sites, power plants, and subterranean systems.

We are looking for an experienced development engineer to join our team to design and build advanced electric drives powering the robot's motion and manipulation capabilities.

You will be taking a leading role as a specialist in the development and control of our electric actuators.

Your main tasks are to

- Develop and model electric actuators and generate specifications for the design team
- Develop electric motors with high torque density and generate specifications for manufacturers
- Confer with development partners and suppliers about design details and production of electric motors
- Develop and implement advanced control algorithms and hardware for electric drives
- Define and develop test procedures for performance evaluation and product qualification
- Test prototype motors and actuators to evaluate and improve the design

You have a Bachelor's, Master's or Ph.D. degree with focus on design and control of small electrical machines and ideally a few years of industrial experience with the following skills:

- Experience in design of electrical motors and control electronics, specifically of PMSM
- Knowledge of field oriented control of permanent magnet synchronous machines
- Strong knowledge of modelling and control of electric actuators including gearbox and sensors
- Experience in low level programming (C,C++) for microcontrollers
- Knowledge of digital signal processing for sensors and field busses
- Knowledge of production processes of electrical actuators
- Knowledge of relevant industrial norms for robotic actuators
- Optional: Experience in analysis and optimization of motor windings
- Optional: Experience in 3D-CAD for design

You are an engaged personality used to work proactively and with precision – on your own and in the team. You enjoy the research environment of ETH Zurich to broaden your horizon, to get to know new technologies and to expand your skills continuously. Your profile is complemented by a good knowledge of English.

We offer an attractive working place in the center of Zurich, a market level salary, and an immediate start. As part of our young, highly motivated and dynamic team you will shape the future of our innovative and securely financed startup.

We look forward to your application on [info@anybotics.com](mailto:info@anybotics.com).

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