

Forschungspraktikum

Neurorobotics for the next Generation of Intelligent Robots

BACKGROUND

The Human Brain Project is a highly interdisciplinary EU research project to unify the understanding of the Human Brain. For this purpose the Neurorobotics subgroup develops a comprehensive simulation framework, the Neurorobotics Platform (NRP), to emulate biological and biomimetic body models. Following the concept of Embodiment simulated biologically realistic neural networks and modalities can be tested on virtual models.

YOUR TASK

The neurorobotics subproject offers several interesting internship opportunities at the intersection of informatics, robotics and neuroscience. Working in the project you can extend your knowledge e.g. in the Robot Operating System (ROS), Software Development, work with latest simulation software and much more.



Currently open projects:

- Robot Designer: Develop tools to automate the generation of musculoskeletal robot simulations.
- Benchmark Experiments: Set up and simulate State of the Art Robotic AI experiments in the Neurorobotics Platform.
- Neuromorphic Computing: Simulate electric circuits that emulate biologically derived neural networks.
- And many more... Just send us an email specifying your interests and experience, we always have fascinating things to do!

REQUIRED SKILLS

- Experience in Computer Science and Programming Skills (Python, C++, ..)
- Ability to work independently and well structured open to dig into latest software tools

FURTHER READING

www.humanbrainproject.eu

www.neurorobotics.net

CONTACT

Benedikt Feldotto
✉ feldotto@in.tum.de

Technical University of Munich
Faculty of Informatics
Chair of Robotics, AI and Real-Time Systems
www6.in.tum.de

