

## Charité Universitätsmedizin Berlin - Department of Psychiatry and Neuroscience



<https://www.charite.de/en/>

### Master thesis project in Systems Neuroscience at Charité

Lasting Impact of Early Experiences on Learning and Decision-Making

City: Berlin; Starting date (earliest): At the earliest possible; Duration: min. 6 months, extension possible; Remuneration: internship/master thesis; Closing date: 06/03/26

#### Tasks

In the Neural Networks Research Group at the Charité Campus Mitte, a master's thesis on the topic 'Lasting Impact of Early Experiences on Learning and Decision-Making' is available. We are a dynamic and interdisciplinary team dedicated to researching the neural foundations of learning and memory, as well as investigating risk factors for mental illnesses (<https://www.claudiaboehmlab.com>). As a master's student, you will contribute to the development of a new behavioral task for rodents and explore whether and how early experiences have a lasting impact on learning and decision-making behavior in a rat model. In addition, the project will examine how internal physiological states, such as oestrous cycle-related hormonal fluctuations and sleep-wake patterns modulate behavioral parameters. In the course of addressing the research question, you will acquire and apply experimental methods, including high-density neural recording techniques, and assist in data analysis using machine learning methods. You will have the opportunity to contribute to ongoing studies and receive individual mentoring.

#### Requirements

- students from natural-, life- or engineering sciences, applicants from medical fields are also welcome
- FELASA certificate required
- Minimum of 6 months availability
- Interest and motivation to conduct behavioral experiments in rodents (rats)
- Self-motivated
- programming experience with Matlab and/or Python and previous laboratory experience are a plus

#### Application

Please send your application including a letter of motivation, CV and current transcript of records by March 06, 2026, to Lukas Braun [lukas.braun@charite.de](mailto:lukas.braun@charite.de)

More information at <https://stellenticket.de/201277/TUBS/>  
Offer visible until 05/03/26

