

Brain Language Laboratory, Department of Philosophy and Humanities, Freie Universität Berlin

The ERC Advanced Grant “Material Constraints Enabling Human Cognition (MatCo)” at the Freie Universität Berlin aims to build network models of the human brain that mimic neurocognitive processes involved in language, communication and cognition. A main strategy is to use neural network models constrained by neuroanatomical and neurophysiological features of the human brain in order to explain aspects of human cognition. To this end, neural network simulations are performed and evaluated in neurophysiological and neurometabolic experiments. This neurocomputational and experimental research targets novel explanations of human language and cognition on the basis of neurobiological principles.

More information about the project can be found here: www.fu-berlin.de/matco

In the MatCo project, 3 positions are currently available:

**1 full time position for a Scientific Researcher at the postdoctoral level
Fixed-term (until 30.9.2025), Salary Scale 13 TV-L FU
ID: WiMi_MatCo100_08-2022, and**

**2 part time positions (65%) for Scientific Researchers at the
predoctoral level
Fixed-term (until 30.9.2025), Salary Scale 13 TV-L FU
ID: WiMi_MatCo65_08-2022**

Job tasks and responsibilities:

- Simulation studies with neural network models of language and cognition
- Preparation, implementation and evaluation of neurocognitive experiments on language and cognition (ECoG, EEG, fMRI).
- Tractography analyses and use of their results for optimizing neural models

Requirements:

- Completed university degree (MA, MSc or equivalent) in a relevant field (e.g., linguistics, psychology, cognitive neuroscience, medicine)
- Only for the postdoc position: Completion of a PhD (or MD) in a relevant field (linguistics, psychology, cognitive neuroscience, medicine)

Desirable:

- Research experience with biologically constrained neural networks and with network simulations of cognitive processes
- Experience in empirical experimental language research

- Research experience in the fields of syntax, semantics or pragmatics
- Very good programming skills
- Very good English skills (minimum level C1)

More information and formal job advertisements can be found at:

www.brainlang.fu-berlin.de/jobs; in case of further questions, please contact friedemann.pulvermuller@fu-berlin.de

The application deadline is 07.11.2022 or until the positions are filled. All applications should be sent by e-mail, as one attached pdf file, to admin@brainlang.fu-berlin.de

By submitting an online application, you as an applicant agree that your data will be electronically processed and stored. Please note that in the case of unprotected electronic transmission of your application, the Freie Universität Berlin can give no guarantee for the security of transmitted personal data.