

## Academic Staff (m/f/d) Department of Computational Neuroscience

Reference Number: 82/24

<b>Salary group</b>	E 13 TV-L
<b>Work hours</b>	Part-time 67 v. H.
<b>Limitation</b>	Temporary for 3 years
<b>Employment location</b>	Cottbus

The Department of Computational Neuroscience at the Brandenburg University of Technology Cottbus-Senftenberg is engaged in research and teaching on mathematical models of brain function, perception, behavior and sensorimotor skills. The main areas of research are:

- Development of probabilistic models of human perception
- Modeling and simulation of sensorimotor processes such as eye movements
- Analysis of behavioral and neurophysiological data
- Experimental and theoretical investigation of spatial navigation

Our research work is basic research, but is often closely related to clinical issues (as in this project), sports or movement sciences, human-machine interaction or the arts. The research topics are ideally suited to the preparation of a doctorate.

### These are your responsibilities

Carrying out scientific research work in one of the projects funded by DFG:

- Scientific work within the scope of the department's research priorities
- Collaboration in the preparation and implementation of third-party funded projects, here in the project: "Dysfunctional processing of respiratory signals in patients with post-COVID? - An experimental-computational approach to investigate the interaction between respiratory behaviour and symptom perception"
- Analysis of respiratory and perceptual data from experiments of the project partners
- Development and simulation of mathematical models of respiratory activity and its perception
- Collaboration with the University Hospital of Munich

Other activities include

- Lecturing and publishing on the subject of research
- Preparation of contributions for reports and presentations
- Other administrative tasks related to research

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## Your Skills

You have successfully completed a university degree in the sense of the TV-L pay scale (accredited Master's degree / university diploma / equivalent) in a subject relevant to the position (neuroscience, psychology, mathematics, physics, electrical engineering or comparable).

Furthermore, you have basic programming skills (e.g. Matlab, Python or comparable) and basic knowledge of mathematics (especially stochastics, analysis), including mathematical modelling. You will round off your profile with written and spoken English.

You also bring with you the ability to work scientifically, independence, flexibility and good communication skills. With the ability to think analytically and to work diligently and conscientiously, you are an ideal addition to our interdisciplinary team.

## Our Offer

You can expect exciting and varied tasks in a highly innovative research project with several partners. You will participate in international conferences with corresponding publications.

The work in the project is ideally suited for a doctorate. In the case of a prospective qualification, opportunities for further employment will be sought after the project has ended.

Extensive opportunities for flexible working hours await you, such as home office, in order to enable a better compatibility of family and career and to achieve higher work and result satisfaction through more self-responsibility in the design and execution of your work.

Become a part of the BTU family. We look forward to getting to know you.

For further information about the vacant position, please contact Prof. Dr.-Ing. Stefan Glasauer (e-mail: [stefan.glasauer@b-tu.de](mailto:stefan.glasauer@b-tu.de)).

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The BTU Cottbus-Senftenberg is committed to equal opportunities and diversity and strives for a balanced gender ratio in all employee groups. Persons with a severe disability as well as persons of equal status will be given priority in the case of equal suitability.

The BTU aims to increase the proportion of women in research and teaching and therefore strongly encourages qualified female applicants to apply.

The submission of application photos is not required.

Please note the more detailed [information on the selection process](#) on the BTU Cottbus-Senftenberg website.

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Please send **applications, quoting the reference number**, by **23.05.2024** exclusively by **e-mail in PDF format to the Head of the Department of Computational Neuroscience**, Prof. Dr.-Ing. Stefan Glasauer, Brandenburg University of Technology Cottbus-Senftenberg, e-mail: [stefan.glasauer@b-tu.de](mailto:stefan.glasauer@b-tu.de).

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