

# Postdoc Research Group Siegert

Full Time

| Klosterneuburg (Vienna), Austria

| € 57.680 gross/year\*

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IST Austria is a growing international institute for conducting frontier research in mathematics, computer science, and the life and physical sciences. We recruit passionate professionals from all over the world and from all fields who support our goals of excellence in research and science management. Located on a beautiful campus on the outskirts of Vienna, we offer numerous opportunities for personal growth in a stable working environment. [Get an insight!](#)

## Postdoctoral opportunity with [NOMIS/IST-Bridge in Siegert lab](#)

We are at the intersection of neurobiology and immunology research and interested how microglia, the resident immune cells in the brain, influence our thinking. The brain's visual system provides a unique system to address this kind of question. We combine multiple biological methods from behavior, functional and transcriptional aspects at either single cell or cell network level. Examples of our projects addressing for example how topological data analysis approaches help us to distinguish between microglial states (in collaboration with EPFL, Switzerland and KTH, Sweden), how distinct drugs alter spatio-temporal gene expression at the single cell level and impact in vivo brain activity, and how microglia impact visual processing and information transmission from the retina to the brain.

## Your profile

- PhD in computational biology, statistical physics, applied mathematics, machine learning or similar
- Prior experience in developing and applying computational methods to large datasets
- Research experience in single-cell RNA sequencing or in vivo electrophysiological recordings is a plus
- Proficiency in the use of programming languages such as Python, C++, Matlab or R for statistical data analysis
- You should exhibit critical thinking skills, an independent work ethic, the motivation to implement new strategies into the research workflow and efficiently communicate to the diverse group background.
- Excellent communication and presentation skills
- Ability to work closely with scientists of other disciplines
- If you are interested to apply with a project in our group, please check whether you meet the eligibility criteria of NOMIS or IST-Bridge: <https://ist.ac.at/en/education/postdocs>

**Application documents:** motivation letter, CV and the name of three references; **flexible start date**

**To submit your application please email:** [sandra.siegert@ist.ac.at](mailto:sandra.siegert@ist.ac.at) with the **subject title „ Postdoc IST“**

\* This position comes with possible overpayment depending on education, qualification and work experience. IST Austria processes your personal data in accordance with the law. For more information, please refer to [www.ist.ac.at/data-protection](http://www.ist.ac.at/data-protection).

## Your benefits



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