

The Department of Psychiatry of the University Hospital of Geneva offers a  
**SNSF-funded PhD position** for a Doctoral Candidate in Neuroscience and Psychiatry

The position is centred around studying **brain network alterations** in **psychosis**, its association with **motivational dysfunction**, and related **biological processes** (i.e. inflammation and oxidative stress). The role involves collecting and analysing prospective high-resolution **7T multiscale and multimodal neuroimaging data** (MRS, fMRI, structural and diffusion MRI) as well as **clinical assessments** in individuals with **schizophrenia spectrum disorders** and healthy participants. Furthermore, the project includes the analysis of **transdiagnostic multimodal data**, leveraging big data including the UK Biobank, the Human Connectome Project, and the ENIGMA consortium. The PhD candidate will be affiliated with the Lemanic Neuroscience Doctoral School (<https://wp.unil.ch/lemanicneuroscience>).

**Prerequisites:**

- An educational background from any of the following: neuroscience, psychology, medicine, biology, computer science, physics, mathematics.
- Outstanding records in any relevant area of clinical neuroscience and neuroimaging research.
- Solid programming skills (Python, MATLAB) and experience in prospective data collection and participant recruitment are required.
- Scientific ambition and excellent interpersonal skills, with a strong willingness to work in a highly cooperative, interdisciplinary team.
- Proficiency in French (B2 or higher) is required due to the involvement in local participants recruitment and clinical interviews. Alternatively, candidates must demonstrate a willingness to develop the required French language skills within the first three months of employment.

The candidate will be part of an enthusiastic team led by Dr. Matthias Kirschner, embedded in the collaborative environment of the Synapsy Centre for Neuroscience and Mental Health Research (<https://www.unige.ch/medecine/synapsycentre>) at the Campus Biotech in Geneva. The candidate will closely collaborate with the research groups of Prof. Stefan Kaiser and Prof. Indrit Begue as well as international collaborators of the ENIGMA consortium. The Campus Biotech offers a world-leading research environment with outstanding facilities and research infrastructure (e.g. 3T and 7T MR scanners, MEG, EEG, TMS, TDCS, psychophysiological, virtual reality, and biomarker labs). Further information about the research in Dr. Matthias Kirschner's group can be found here: <https://tmn-lab.github.io>.

**Starting date:** October 2024 or later

**Duration:** Three years

**Salary:** Based on the regulations of Swiss National Science Foundation and the University of Geneva.

The application should include a cover letter and personal statement, CV including a list of publications (if applicable), and contact details or letter of reference of at least two referees. Closing date for applications is **7<sup>th</sup> September 2024**.

We look forward to receiving your complete application in one document (reference number **PhD 10/24**) via e-mail at [matthias.kirschner@hug.ch](mailto:matthias.kirschner@hug.ch). Please note that only complete applications will be considered. Should you have any particular question regarding the open position and/or our research, you are welcome to contact Dr. Matthias Kirschner at the same address.