

JOB SPECIFICATION

JOB TITLE: Intern for a Brain Data Platform dedicated to Neuroimaging Data Science

PLATFORM / TEAM: Human Neuroscience Platform

FACILITY: Methods & Data facility

JOB PURPOSE

The Campus Biotech in Geneva houses neuroscience laboratories from the Swiss Federal Institute of Technology of Lausanne (EPFL) and the University of Geneva. Within this context, the Fondation Campus Biotech Geneva (FCBG) Methods & Data facility (<https://hnp.fcbg.ch/home/methods-data>) provides state-of-the-art neuroimaging data science and expertise to the housed labs.

In the line of the continuous development and improvement of our services, the Methods & Data facility wants to offer researchers a way to easily access, combine and share their data for open & reproducible research. Consequently, we offer a 6-month Master internship full-time (i.e. 100%). The candidate should be engaged in a **computer science university program at Master level**, or equivalent.

Goal: Help setup a neuroimaging data management system relying on the findable, accessible, interoperable and reusable (FAIR) principles to allow open & reproducible data science applications

Tasks:

- Setup a cutting-edge (and open source) neuroimaging database solution to retrieve data from different brain imaging modalities
- Configure the database solution to run in the cloud
- Deploy automated tasks to organize data ready for data science applications
- Be open to learn basic neuroimaging concepts to optimize brain data analysis
- Document the resulting code and implementation process

Skill

- [Required] Bash programming and Linux Administration
- [Required] Python programming
- [Required] Git / GitHub version control
- [Required] Proficiency in English
- [Preferred] Cloud computing
- [Preferred] Experience with web development (e.g. HTML, CSS)
- [Preferred] Experience with containers (e.g. Docker)
- [Preferred] Experience with Web Service APIs
- [Optional] Experience with medical data
- [Optional] Experience with metadata / semantic web technologies (e.g. RDF, SPARQL)
- [Optional] Experience with high computing performance clusters (HPC)

Application: send your resume, cover letter, grade transcripts and name/contact details of two referees to administration@fcbg.ch

Starting date: flexible