

At Bern University Hospital, we strive to improve understanding of fluctuations of human brain activity providing access to direct intracranial and long-term continuous EEG recordings in epilepsy patients. This is a unique window into the human brain and its dynamics. We are currently looking for one to two postdoctoral fellows to start by in 2019. You have a dedication to conducting impactful research in support of neurotechnology development.

#### Key qualifications

- A PhD in neuroscience, computer science, physics, engineering, statistics or applied mathematics
- Experience with neural time-series and/or epilepsy data
- Fluent in numerical computing (Matlab, Python)
- A strong analytical and computational track record

#### Preferred qualifications

- Basic to extensive knowledge of computational neuroscience
- Experience with deep-learning, machine-learning or statistical model development
- Experience with open hardware (Arduino, Raspberry-Pie)

#### **Postdoctoral fellowship in computational neuroscience at an academic hospital**

Your job will be to collect, organize and analyze neural time-series in different brain states. You will carry out extensive analytics that aim to pull out meaningful and actionable insights for complex multimodal datasets. You will harness your insights to design further closed-loop stimulation experiments. You will help to architect real-time algorithms for cloud computing. The working environment is a dynamic team of neurologists, neuroscientists, physicists, and engineers all working together at the hospital to improve care in neurology. Domains of expertise of the Neurology department at Inselspital are epilepsy and sleep.

By taking the job, you will

- have a full-time employment on a yearly basis contract (renewable) at the largest Swiss university hospital
- Regular learning sessions, workshops and local scientific meetings
- Budget for yearly international conference

#### **Contact**

Maxime Baud, MD, PhD  
Attending physician and group leader  
Department of Neurology – Inselspital – Bern  
Switzerland

Email: [maxime.baud.neuro@gmail.com](mailto:maxime.baud.neuro@gmail.com)

Web:

<https://maximebaud.wordpress.com/2017/11/28/maxime-baud-research-activity/>

<https://www.wysscenter.ch/person/maxime-baud-md-phd/>