UNIVERSITETET I OSLO

Jobbnorge-ID: 135223
Søknadsfrist: Closed
Nettside:
Omfang:
Varighet:

Postdoctoral Research Fellowship in Computational Neuroscience/Brain Physics

Applications are invited for a post-doctoral position in computational neuroscience/brain physics at the Department of Physics. The position is funded by the Research Council of Norway as part of the FRINATEK project "COmputing BRAin signals (COBRA): Biophysical computations of electrical and magnetic brain signals". The position is for 2 years and expected start date is in the Spring/Summer of 2017. No one can be appointed for more than one specified period at the same institution.

Job/project description:

The successful candidate will develop and apply physics-based computational methods to model electrical and magnetic brain signals measured inside (local field potential; LFP) and outside (EEG, MEG) cortex. For a review of this biophysical modeling approach, see Einevoll et al., Nature Reviews Neuroscience, 2013. In COBRA this modeling work will be compared with corresponding in-house experimental recordings from mouse visual cortex done in the laboratory of Marianne Fyhn at Department of Biosciences at UiO. The project thus also involves the development of a network model for mouse visual cortex.

The candidate will work in the internationally leading cross-disciplinary environment CINPLA (cinpla.org), a research center set up by the Faculty of Mathematics and Natural Sciences. Presently, CINPLA includes about twenty biologists, physicists, and computer scientists co-localised in the building of Department of Biosciences at UiO. The candidate will develop and use state-of-the-art computer simulation packages and national supercomputer resources.

Requirements:

The Faculty of Mathematics and Natural Sciences has a strategic ambition of being a leading research faculty. Candidates for these fellowships will be selected in accordance with this, and expected to be in the upper segment of their class with respect to academic credentials.

Applicants must hold a master's degree in physics and have a PhD in either computational neuroscience or theoretical physics with a significant computational component. The candidate must have demonstrated strong skills in developing codes for scientific computing. Previous experience in neuroscience is considered advantageous, but not required.

The main purpose of post-doctoral research fellowships is to qualify researchers for work in top academic positions within their disciplines.

Please also refer to the regulations pertaining to the conditions of employment for post-doctoral fellowship positions: http://www.uio.no/english/about/regulations/personnel/academic/regulations-employment-conditions-postdoc.html

A good command of English is required.

Salary:

Position code 1352, Salary: NOK 486 100 - 567 100 per year, depending on qualifications and seniority.

Evaluation:

An expert committee will evaluate the applications. Information and materials that should be considered by the committee must be submitted within the deadline. Applicants may be called in for interview.

The application must include:

- Application letter including a description of the motivation for applying for the position
- CV (summarizing education, positions and academic work)
- Copies of educational certificates and transcript of records
- Complete list of publications and academic work
- Up to five highlighted publications
- Names and contact details of 1-2 references who have been asked to send reference letters

In accordance with the University of Oslo's equal opportunities policy, we invite applications from all interested individuals regardless of gender or ethnicity.

UiO has an agreement for all employees, aiming to secure rights to research results a.o.

Contact information:
For more information please contact Professor Gaute T. Einevoll, gaute.einevoll@fys.uio.no.

For questions regarding the recruitment system Jobnorge, please contact HR Officer Therese Ringvold, e-mail: therese.ringvold@mn.uio.no, phone: 22 85 16 06.

Tilleggsinformasjon

Arbeidssted: