Postdoctral position at the Division of Cerebral Circuitry, Department of Fundamental Neuroscience, National Institute for Physiological Sciences (NIPS), Okazaki, Japan

We invite applications for a postdoctral researcher in the area of mathematical/computational modeling of biochemical signaling in neurons. A new collaborative project with Kyoto U has been launched for the elucidation of liquid-liquid phase separation (LLPS) of synaptic molecules (#). We will develop computational models that describe the LLPS, and simulate the spatiotemporal dynamics of synaptic biochemical signaling, to elucidate how our learning and memory are organized. We also conduct a long-standing project on electron microscopic (EM) connectomics. The applicant is also expected to contribute to this project from the informatics aspect.

(#) Spatiotemporal dynamics of molecules in sub-synaptic space for learning and memory, CREST, Japan Science and Technology Agency (JST), Japan.
https://www.jst.go.jp/kisoken/crest/application/2020/201124/201124crest.pdf
Japanese web page

1. Job title
   Full-time Postdoctral Researcher

2. Begin date
   April 1st 2021 (negotiable)

3. Appointment period
   Annually renewed based on evaluation. Up to Sep/2025.

4. Workplace
   NIPS, Okazaki, Japan
   http://www.nips.ac.jp/circuit/
   5-1 Myodaiji-Higashiyama, Okazaki, Aichi, 444-8787, Japan

5. Qualifications
   Applicants must:
   - have Ph.D. (or be near the completion of the degree).
   - have strong motivations and ambitions to participate in the research above.

6. Compensation

Salary will be commensurate with qualifications and experience. Social insurance will be applied. Days off include public holidays, New Year's holidays (Dec. 29 - Jan 3), summer vacation, and sick leave. These and other provisions are in accordance with NIPS regulations.

7. Required documents

Please send the following five materials to the email address below:

1. Complete CV
2. List of publications
3. Reprints of 1 to 3 major publications
4. Document (one or two pages in A4 or letter size) describing:

- Summary of your previous research
- Interests and proposal for research
- Technical skills (programming skills, etc)

5. Two letters of recommendation (including one from the current supervisor, if available)

8. Deadline

February 28 (Sun), 2021

9. Selection

Selection will be made based on application screening and interviews.

10. Application and Contact

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