

Opening Recruitment of Specially Appointed Research Employee (Brain Imaging) of the  
Department of Quantitative and Imaging Biology, Headquarter for Co-Creation  
Strategy, National Institutes of Natural Sciences

The Department of Quantitative and Imaging Biology (QIB), Headquarter for Co-Creation Strategy (launched in April 2023), of the National Institutes of Natural Sciences in Japan aims to promote international collaborative research of life sciences in cooperation with Princeton University. The QIB seeks to appoint a postdoctoral researcher to harness advanced brain imaging approaches for promoting joint research between NINS and Princeton University. Guidelines follow below.

1. Title and number of positions to be filled

Title: Specially Appointed Research Employee (Annual Salary System)

Title in Princeton University: Postdoctoral Research Fellow

Number: one person

2 Research fields

Brain Science, Neuroscience, Neuroimaging, Experimental Psychology and/or related fields

3. Requirements for applicants

(1) Applicants must have a Ph.D. or be scheduled to complete the degree until the starting date.

(2) Applicants must have published at least one peer-reviewed article as a first author on a field of human neuroimaging in an international journal.

(3) Successful candidates are expected to have prior experience with neuroimaging data analysis using MATLAB and/or Python coding environments. Expertise analyzing diffusion-weighted MRI data, and tractography modeling of white matter, are desirable.

4. Research content and duties

The research project aims to use brain imaging methods such as functional MRI, diffusion-weighted MRI, and quantitative MRI, to elucidate the neural basis of sensory-cognitive information processing in the human brain. Specific research targets include, for example, early visual cortex and ventral occipito-temporal cortex, but other brain regions can also be studied. The research will be conducted in collaboration with Professor Hiromasa Takemura (QIB, Headquarter for Co-Creation Strategy,

NINS/National Institute for Physiological Sciences, NINS) and Assistant Professor Jesse Gomez, Princeton Neuroscience Institute, Princeton University, Princeton, NJ, USA.

#### 5. Term of appointment

The successful candidate should be able to start on or after April 1st, 2024 (can be flexible upon mutual agreement). The term of the contract will be renewed annually (for up to a total of three years in NINS and Princeton).

#### 6. Salary

- (1) The specially appointed research employee will be employed under an annual salary system and will receive a salary based upon NINS' standard.
- (2) The specially appointed research employee will be eligible for enrollment in social insurance.
- (3) Travel and relocation costs to NINS QIB will be covered, subject to the travel regulations of NINS.

#### 7. Work location

Since this is collaborative project, depending on the research progress, the research fellow may stay either at QIB, NINS in Japan (Prof. Hiromasa Takemura's Lab, National Institute for Physiological Sciences, National Institute of Natural Sciences, 38 Nishigonaka Myodaiji, Okazaki, Aichi 444-8585, Japan) or at Princeton University (Prof. Jesse Gomez's Lab, Princeton Neuroscience Institute, Washington Rd., Princeton, NJ 08544).

#### 8. Application deadline

Applications submitted by October 31st, 2023 will be reviewed with priority. There is the possibility for closing recruitment before this date when the position is filled. Recruitment will continue until an appropriate candidate is selected.

#### 9. Reviewing and selection system

Selection will be made by the selection committee of QIB, Headquarter for Co-Creation Strategy, NINS. First screening will be done based upon the examination of all submitted documents. After the first screening, we will have a second screening interview using either online meeting system like Zoom, or an onsite meeting. The travel expense for the onsite interview will not be covered by NINS.

## 10. Documents to be submitted

Documents must be written in English for the international review.

- (1) CV
- (2) Publication list
- (3) PDF files of publications
- (4) A brief summary of research history and a statement of intent (i.e., how you think you can contribute to the project). These documents should be 1 to 3 pages in length.
- (5) Contact information of two or more professional work references (name, affiliation, e-mail address, and phone number)

## 11. Submission method and address

Send your application documents by e-mail to: nins-kokusai\_AT\_nins.jp (replace \_AT\_ with @)

Subject of e-mail: “Application for specially appointed research employee of Takemura lab., NINS QIB”

## 12. Contact information

### (1) Regarding application documents

Research Cooperation Division, Administrative Bureau, National Institutes of Natural Sciences

E-mail: nins-kokusai\_AT\_nins.jp (replace \_AT\_ with @)

National Institutes of Natural Sciences, 2F Hulich Kamiyacho Building, 4-3-13 Toranomon, Minato-ku, Tokyo 105-0001, Japan

### (2) Regarding research

Prof. Hiromasa Takemura

E-mail: htakemur\_AT\_nips.ac.jp (replace \_AT\_ with @)

Department of Quantitative and Imaging Biology, Headquarter for Co-Creation Strategy, National Institutes of Natural Sciences/ Division of Sensory and Cognitive Brain Mapping, Department of System Neuroscience, National Institute for Physiological Sciences, National Institutes of Natural Sciences, 38 Nishigonaka Myodaiji, Okazaki, Aichi 444-8585, Japan

### 13. Miscellaneous

- (1) Please submit application documents by e-mail to NINS.
- (2) Application documents will not be returned after submission. NINS will not use application documents for any other purpose but this selection. Application documents will be disposed after the selection.
- (3) Payment is on annual salary system (It will be paid monthly by installments).
- (4) Policy for Equal Employment Opportunity: Abiding by the Act on Equal Opportunity and Treatment Between Men and Women in Employment, NINS is committed to the realization of a society with gender equality. If two candidates are deemed equal in their performance evaluation, NINS will take positive action to employ women.
- (5) If an applicant has taken one or more leaves of absence for the purpose of maternity, child-care, and/or family-care (including shorter working hours for the purpose of child-care and/or family-care), or has been absent from research activities due to illness or an injury that occurred in the workplace or while commuting, please describe this in the resume. NINS will take this information into consideration in the selection process.