

## JOB VACANCY ANNOUNCEMENT

- Project Research Staff on Annual Salary System (Development of a new methodology to infer internal structure of Martian moons in combination with science operation planning) (RISE Project)

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Job Title: Project Research Staff (postdoctoral researcher), one position

Area of Expertise: Earth and planetary sciences, geodesy, astronomy and/or related fields

Job Description: The successful candidate will spend 100 % of their duty time for the following research project.

- (a) Research subject: Development of a new methodology to infer internal structure of Martian moons in combination with science operation planning
- (b) Research description: Under collaboration with RISE project members, the successful candidate shall contribute to Martian Moons eXploration (MMX) by developing a new methodology to infer internal structure of the Martian moons based on remote sensing observations of such as shape, gravity, and rotation, and shall plan science observation operation required to achieve the expected accuracy. The specific work includes covariance analysis based on dynamical orbit simulation and development of operation planning software.
- (c) Requirement: It is preferable but not requested that the applicant is experienced in analyzing planetary exploration data such as camera and laser altimeter data, or in programming with SPICE library.
- (d) Project: RISE Project
- (e) Research Environment: The successful candidate will join MMX Geodesy Sub-Science Team. The RISE project will provide the necessary research environment.
- (f) Contacts: If you have any questions related to the job description, contact;  
Prof. Koji Matsumoto, RISE Project, NAOJ  
E-mail: koji.matsumoto\_AT\_ao.ac.jp (replace \_AT\_ with @)  
If you have any question related to the job application system or other items, contact,  
E-mail address: JobRegister-contact-10\_AT\_ao.ac.jp (replace \_AT\_ with @)

Minimum Educational Requirement:

The applicant must have a PhD degree or is expected to have it by March 31, 2021. The applicant is evaluated by its scientific achievements, compatibility of its research plan to the research subject, and ability to complete the research plan.

Division and Location: RISE Project, National Astronomical Observatory of Japan (NAOJ), Mitaka,

Tokyo, Japan (or Oshu, Iwate, Japan, if the successful candidate requests.)

Term of Appointment:

- (1) The successful candidate is expected to start the job on April 1, 2021 or as early as possible after April 1, 2021.
- (2) The term of employment will be five years after the appointment starts, including the probation period of six months. If the successful candidate had been employed as an NINS (National Institutes of Natural Sciences) employee after April 1, 2013, the term will be set so that the total accumulated period of employment does not exceed ten years.

Required Application Materials: (\*To be prepared in English or Japanese)

- (1) Curriculum vitae,
- (2) Summary of past research activities,
- (3) List of publications (Separate refereed and non-refereed papers, and show all co-authors),
- (4) PDF files of up to three relevant papers
- (5) Outline of research plans,
- (6) Names of two or less references, if applicants are submitting reference letters (must be uploaded by the references themselves directly to the NAOJ job application system before the deadline).

Closing Date for Application: 12:00(noon), March 10, 2021 (Japan Standard Time)

How to Submit an Application:

Applicants are required to apply via the NAOJ job application system on the web:

<https://jobregister.nao.ac.jp/>

Please fill out the form on the web and upload the documents specified on the application form.

We recommend that the applicants obtain their applicant IDs and reference IDs from the application system in advance. Reference letters should be uploaded by persons who have written the letter for you directly, following the instruction shown on the application form. The application documents should be converted to PDF (max 50MB each, 100MB in total).

Notes for application:

- Candidates selected in the final short list may be interviewed by the selection committee via internet. The expense for the interview will not be covered by NAOJ.
- Information submitted in your application documents will not be used for any purpose other than the selection process and for contacting you with necessary notices in connection with the selection. Once the selection process is complete, we will securely dispose of all application documents and personal information, except for those submitted by the successful candidate.
- Once you are employed as a Project Research Staff by NAOJ, you will not be eligible anymore

for an NAOJ Project Research Fellow.

#### Remarks

- The project research staff will be employed under an annual salary system, and will receive a salary proportionate to the pay grades of a national university assistant professor (paid monthly in 12 equal payments).
- Commuting expenses (up to 55,000 JPY per month) will be provided. Bonus and retirement allowances are not provided.
- Project research staffs are eligible to apply for the Grants-in-Aid for Scientific Research (KAKENHI).
- Work days: 5 days per week (from Monday to Friday).
- Work type: Discretionary work.
- Holidays: Saturdays, Sundays, National Holidays, New Year Holidays.
- Paid Leave: shall be provided (annual paid leaves, summer holidays, bereavement leave).
- Eligible for enrollment in social insurance.
- Travel and relocation costs to NAOJ will be covered, subject to the travel regulations of NINS (details must be arranged with the administration office).
- Smoking is prohibited on the premises excluding designated outdoor smoking areas.
- Policy for Equal Employment Opportunity: Abiding by the Equal Employment Opportunity Act for Men and Women, NAOJ is committed to the realization of a society with gender equality. If two candidates are deemed equal in their performance evaluation, NAOJ will take positive action to employ women. For details, see <https://www2.nao.ac.jp/~open-info/danjokyodo/index.html>.