

JOB VACANCY ANNOUNCEMENT

- Project Research Fellow (Project Researcher on Annual Salary System) at Advanced Technology Center, National Astronomical Observatory of Japan (NAOJ) -

1. Job Title: Project Researcher (Project Research Fellow), one position

2. Division: Advanced Technology Center

3. Work Location: National Astronomical Observatory of Japan (NAOJ), Mitaka, Tokyo

4. Area of Expertise: Radio Astronomy, Receiver development

5. Job Description:

We invite applications for a Project Researcher (Project Research Fellow) funded by Grants-in-Aid for Scientific Research (S) “Galaxy Formation in the Pre-Reionization Era Explored by Far-Infrared Nebular Emission Lines” at ATC of NAOJ to conduct the research and develop a 120-350 GHz low-noise receiver system with a wide intermediate frequency (IF) bandwidth. The successful candidate will work on designing and developing radio frequency waveguide components and 120-350 GHz Superconductor-Insulator-Superconductor (SIS) mixers aiming for wide IF bandwidth in corporation with ATC staff and associated universities’ collaborators. The successful candidate is also expected to establish a wideband receiver evaluation system and to integrate and test the full receiver system at the laboratory. Furthermore, the successful candidate is also required to be involved in integrating and verifying the receiver into the Large Millimeter Telescope located at Mexico for astronomical observation.

6. Terms of Appointment:

The successful candidate is expected to start the job as early as reasonably possible after April 1, 2023. The term of employment will be up to three years, including the probation period of six months.

Note:

- (1) If the successful candidate had been employed by the National Institutes of Natural Sciences (NINS, which is an executive institute that manages NAOJ) within six months retroactively from the start date, the term will be set so that the total employment period does not exceed ten years.
- (2) If the successful candidate had been employed as an NAOJ Project Researcher (including Project Research Fellow) or a Researcher (Part-time Contract Employee), the term will be set so that the total accumulated period of employment does not exceed five years.
- (3) Annual performance review will be conducted.

7. Qualifications:

- (1) The applicant must have a PhD degree or is expected to have it by the start date.
- (2) Experiences in the design and development of receiver instruments and/or RF components, and basic knowledge of microwave engineering are preferable.

8. Labor Conditions:

(1) Work Type and Work Hours:

The Discretionary Labor System for Professional Work shall be applied. (Standard work hours: 38.75 hrs/week, from 8:30 to 17:15 with an hour intermission)

(2) Holidays:

Saturdays and Sundays, National Holidays, New Year holidays (December 29th - January 3rd), Paid days off (annual leave, summer holidays, etc.)

(3) Social Insurances:

MEXT Mutual Aid Association (health insurance), Employees' Pension Insurance, Employment Insurance, Industrial Accident Compensation Insurance

(4) Remuneration:

The project researcher will be employed under an annual salary system, and will receive a salary of 350,000 JPY per month. Commuting expenses (up to 55,000 JPY per month) will be provided. Retirement allowances are not provided.

(5) Others:

- Day-care center for children (from 57 days old). *Availability depends on the situation. Childcare staff does not provide English support.
- Smoking is prohibited on the premises excluding designated outdoor smoking areas.
- Travel and relocation costs to NAOJ will be covered, subject to the travel regulations of NINS (details must be arranged with the administration office).

9. Selection Process:

A candidate will be selected through screening of application documents and interview (face-to-face or online). The expense for the interview will not be covered by NAOJ.

10. Required Application Documents: (*To be prepared in English or Japanese)

- (1) A curriculum vitae,
- (2) A summary of past research activities (approximately 1500 words, excluding figures and references),
- (3) A list of publications (Separate refereed and non-refereed papers. For co-authored papers, list all the names of authors),
- (4) An outline of research plans (approximately 1500 words, excluding figures and references),

- (5) One reference letter: Please ask your reference to upload the letter directly using the URL indicated in 12. before the application deadline. Applicants are responsible for ensuring that the letter is submitted before the application deadline.

11. Closing Date for Application:

March 3, 2023, 17:00 (Japan Standard Time).

12. Submission:

Applicants are required to apply via the NAOJ Nextcloud on the web.

- (1) Please access the following URL for registration:

<https://forms.office.com/r/dBmJt8W5dt>

- (2) After you submit registration form, you will receive an email showing the URLs for (a) uploading your application documents, and (b) for your reference letter.
- (3) Please ask your reference to upload the letter via the URL (2)(b).
- (4) Please upload the application documents (from 10. (1) through 10. (4) above) via the URL (2)(a). These files must be in PDF format (max 50MB each, 100MB in total, at most 10 files).

13. Contacts:

If you have any question related to the job description, please contact;

Takafumi Kojima, Advanced Technology Center, NAOJ

E-mail: t.kojima_AT_nao.ac.jp (replace _AT_ with @)

If you have any question related to the other items, please contact;

E-mail: job12_pjt_researcher2_AT_nao.ac.jp (replace _AT_ with @)

14. Remarks

- 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.
- The project researcher is eligible to apply for the Grants-in-Aid for Scientific Research (KAKENHI).
- 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. If you have taken a leave(s) such as for maternity, childcare, and/or family care, please indicate it in your curriculum vitae. We will consider it when assessing your performance. For details, see <https://www2.nao.ac.jp/~open-info/gender-equality/en/>.

15. Name of recruiter

Inter-University Research Institute Corporation, National Institutes of Natural Sciences (NINS),
National Astronomical Observatory of Japan (NAOJ)