

JOB VACANCY ANNOUNCEMENT

- Assistant Professor at Advanced Technology Center (ATC), National Astronomical Observatory of Japan (NAOJ)

1. Job Title/Position: Assistant Professor, one position

2. (1) Division: Advanced Technology Center (ATC)

(2) Work Location: Mitaka, Tokyo 181-8588, Japan

3. Area of Expertise: Applied physics, Electric/Electronic Engineering, System Engineering, and/or Radio Astronomy

4. Job Description:

The National Astronomical Observatory of Japan (NAOJ) has been playing a key role at the forefront of global astronomical research, as demonstrated in the construction and operation of large-scale astronomical facilities such as the Subaru Telescope, ALMA, and TMT (Thirty-Meter Telescope) and the development of space-based instruments such as the Hinode Satellite for solar observation, and strives to promote cutting-edge astronomy utilizing these advanced telescopes. The NAOJ Advanced Technology Center (ATC), the research center for developing advanced technology to support these important astronomical programs, has produced successful results in developing various astronomical instruments.

We invite applications for an assistant professor position at the ATC. This position is open to qualified individuals who will work as research staff at the ATC to develop next-generation heterodyne receivers and key technologies at millimeter and submillimeter wavelengths for future receivers of leading astronomical programs such as ALMA2. The successful candidate will be required to technically lead the upgrade of ALMA Band 8 and Band 10 receivers with ultra-low noise performance and ultra-wide IF band to meet the top-level science requirements, as shown in the ALMA Development Roadmap. The selected assistant professor will collaborate with both domestic and international institutes and universities to research and develop innovative receivers that are not mere extensions of conventional technologies. This position is also expected to play a significant part in applying the technologies developed at the ATC to the industry. In addition, fostering young scientists, engineers, and technicians, including Ph.D. students, is also required as part of the responsibility. The selected candidate will be employed as an assistant professor at the ATC but may be transferred to other divisions related to the ALMA program. Candidates are sought who have a wide range of experience and expertise in

radio astronomy and instrumentation.

5. Terms of Appointment:

The successful candidate should be able to start as soon as reasonably possible after accepting the job offer. The term of employment will continue up to the end of the Japanese academic year, in which the post-holder reaches NAOJ's mandatory retirement age of 65. The hired candidate will undergo a six-month probationary period upon commencement of employment. A review for the continuation of employment as an assistant professor will occur during the fifth year. In case that the review may result that the successful candidate couldn't have fulfilled duties as an assistant professor enough, the successful candidate would be requested to transfer to another position within NAOJ.

6. Qualification Requirements:

- (1) Ph.D. or equivalent; and
- (2) To have a proven track record of achieving internationally recognized research in the field of expertise through peer-reviewed publications in relevant journals
- (3) Experience as the lead or as a key member of a development team for large-scale astronomical projects will be highly evaluated
- (4) To have a native-level command of Japanese and fluency in English

7. Required Application Materials: (*To be prepared in English. Any other language will not be accepted.)

- (1) A cover letter;
- (2) A curriculum vitae;
- (3) Publications list (Separate refereed and non-refereed papers. SPIE can be included in refereed papers.);
- (4) A summary of your past research activities, including international collaborations;
- (5) Your commitment and plan to fulfill the duties (including your research plan as needed);
- (6) Your contact address (email and phone) and the email address of your current supervisor or line manager.
- (7) Three or more reference letters. Reference letters should be written by faculty/staff with tenured positions. Reference letters from multiple countries are preferred. Please ask your references to upload their letters directly to the URL indicated in 9.1. before the application deadline. Applicants are responsible for ensuring that the letters are submitted before the application deadline.

8. Application Deadline: 2023-10-31, 17:00 (Japan Standard Time)

9. Application Instructions:

9.1. How to Submit an Application:

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/W7Djtg1wSR>

(2) After you submit the registration form, you will receive an email showing the URLs for (a) uploading your application documents and (b) your reference letters.

(3) Please ask your references to upload their letters via the URL shown in (2)(b).

(4) Please upload the application documents (from 7. (1) through, (6) above) via the URL(2)(a). These files must be in PDF format (max 50 MB each, 100 MB in total, at most 10 files).

9.2. Contacts:

• If you have any questions related to the job description, contact;

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

Attention to: Masayuki Hirabayashi, Director of Advanced Technology Center, NAOJ

• If you have any questions related to other items, contact;

E-mail: job04-assistantprof_AT_ao.ac.jp (replace _AT_ with @)

Subject: "Application for Assistant Professor position of Radio Astronomy and Instrumentation"

10. Notes for Application:

- Candidates selected in the final shortlist may be interviewed by the selection committee either in person or online. NAOJ will not cover any expenses associated with the interview.
- If the selection committee determines that there are no qualified candidates for this position, this announcement may be closed without any selections.

11. Working 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), Annual paid leave, Summer holidays, Bereavement leave, etc.

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

(4) Remuneration:

- Salary: Annual salary shall be determined based on professional knowledge, skills, required education, and job experiences as per the NINS regulations (NINS, or the National Institutes of Natural Sciences, is an upper-level organization that manages NAOJ). Payments will be made monthly in 12 equal installments.
- Allowances: Dependent allowance, residential allowance, commutation allowance, and other allowances will be paid to employees who meet the conditions outlined in the NINS regulations. An amount equivalent to the year-end allowance and diligence allowance will be included in the annual salary.
- Salary Increment: Once a year in accordance with the performance review
- Retirement Allowance: Provided
- Travel and relocation: Eligible employees will be provided with a relocation travel package to NAOJ, subject to the travel regulations of NINS (details must be arranged with the administration office).

12. Miscellaneous

- The NAOJ Advisory Committee for Research and Management will make the final decision for the appointment.
- This position is subject to the NINS Employee Regulations. The annual salary schedule indicated in Table (2) of the Research-Education Employee Base Annual Salary shall be applied to this position.
- Policy for Equal Employment Opportunity: Abiding by the Equal Employment Opportunity Act for Men and Women, NAOJ is committed to realizing 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/gender-equality/en/>
- If you have taken a leave(s) for maternity, childcare, and family care, please indicate it in your curriculum vitae. We will take it into account when assessing your performance.
- Smoking is prohibited on the premises excluding designated outdoor smoking areas.

- 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 those submitted by the successful candidate.

13. Recruiting Institution:

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