

## **JOB VACANCY ANNOUNCEMENT**

### **- Project Professor for SIS Devices, National Astronomical Observatory of Japan (NAOJ) -**

NAOJ invites applications for a Project Professor position as follows:

1. Job Title: Project Professor, one position
2. Division and Location: The Advanced Technology Center (ATC), NAOJ, Mitaka, Tokyo 181-8588, Japan
3. Area of Expertise: Applied Physics, Electrical/Electronic Engineering, or Radio Astronomy
4. Job Description:

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

We invite applications for a Project Professor position at the ATC of NAOJ. A successful candidate for this position is expected to work at the cleanrooms of ATC and to lead the development and fabrication of Superconductor-Insulator-Superconductor (SIS) devices to be implemented in the next-generation heterodyne receivers for the upgrade of ALMA. In particular, the successful candidate is expected to develop advanced fabrication technologies for innovative superconducting devices with good reproducibility, to produce various kinds of devices for worldwide telescopes at millimeter and submillimeter wavelengths. The successful candidate is also required to develop and implement maintenance and upgrade plans of the instruments for device fabrication in the cleanrooms of ATC, including their expansion and establishment of new capabilities. The responsibilities of this position require continuously demonstrating leadership and outstanding performance in research activities, and also fostering collaborations among NAOJ scientists and engineers to stimulate productivity of science and development by making the best use of NAOJ's strengths. Fostering of young scientists, engineers and technicians including PhD's students is also required as part of the

responsibility.

As required qualifications for this position, applicants are expected to have a wide range of experience and skills in the field of radio astronomical instrumentation, and have leadership or system engineering ability to strongly promote astronomical research and development keeping up with the demands of the times.

5. Terms of Appointment:

The successful candidate should be able to start as soon as reasonably possible after the job offer has been accepted. The term of contract is for five (5) years or up to the end of the Japanese academic year in which the faculty reaches NAOJ's mandatory retirement age of 65, whichever is shorter. The term includes the probation period of six (6) months. If the results of annual performance reviews remain positive for five consecutive years, the contract may be extended for up to additional five (5) years within the prescribed age limit for retirement. If the successful candidate has been employed by NINS after 2013 April 1, the term may be set so that the total accumulated terms of the employment does not exceed ten (10) years.

6. Minimum Educational Requirement: Ph.D. or equivalent

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,
- (6) Your address (e-mail and phone) for prompt contact and the email address of your current supervisor or line manager.
- (7) Three or more reference letters. Note that your current supervisor or line manager cannot be your reference. Please ask your references to upload the letters directly to an NAOJ's application system shown in 9 before the deadline. Applicants are responsible for ensuring that the letters are submitted before the application deadline (Reference letters should be written by faculty/staff with tenured positions, and no more than two reference letters will be accepted from each country).

8. Application Deadline: 2020-05-25, 17:00 (Japan Standard Time)

## 9. Submission:

Applicants are required to apply via the NAOJ's 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. If it takes time to prepare the documents, applicants should be issued applicant ID and reference IDs 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. Reference IDs and passwords are required to upload reference letters, so please inform references of the issued reference IDs and passwords.

The application documents should be converted to PDF (max 50MB each, 100MB in total, at most 10 files).

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

E-mail: y.uzawa\_AT\_nao.ac.jp (replace \_AT\_ with @)

Professor Uzawa, Yoshinori,

*Director of Advanced Technology Center, NAOJ,*

Subject of e-mail: "Question on JD of Project Professor for SIS at the NAOJ ATC"

If you have any question related to the application system or other items, contact;

E-mail: JobRegister-contact-10\_AT\_nao.ac.jp (replace \_AT\_ with @)

Subject of e-mail: "Question on Project Professor for SIS at the NAOJ ATC"

## 10. Notes for application:

- Candidates selected in the final short list may be interviewed by the selection committee either via internet or face-to-face. The expense for the interview will not be covered by NAOJ.

## 11. Remarks:

- The NAOJ Advisory Committee for Research and Management will make the final decision for the appointment.
- 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://open-info.nao.ac.jp/danjokyodo/>
- 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.