

JOB VACANCY ANNOUNCEMENT

- Associate Professor, Advanced Technology Center, National Astronomical Observatory of Japan (NAOJ) -

NAOJ invites applications for an associate professor position as follows:

1. Job Title: Associate Professor, one position
2. Division and Location: Advanced Technology Center, Mitaka, Tokyo
3. Area of Expertise: Optical instrument system for large telescopes

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). The Subaru Telescope, an 8.2m optical infrared telescope atop Maunakea in Hawaii, achieved its first light in 1999, and since then it uniquely features wide-field imaging capabilities which enable Japanese astronomers to lead the world in this field.

The NAOJ Advanced Technology Center (ATC), the research center for advanced technology development, has been playing a central role in designing and building new instrumentation for the Subaru Telescope, including the Suprime-Cam and the Hyper Suprime-Cam. ATC has a responsibility to develop a novel and unique instrument that makes full use of the advantages of the Subaru Telescope; wide-field sharp imaging, for which various basic R&D, such as high-speed optical CMOS and near IR detector, is currently underway. Furthermore, given the emergence of more powerful wide-field imaging facilities such as the US Rubin Observatory and European Euclid space telescope in a few years' time scale, NAOJ is committed to securing Japanese astronomers' data access rights to such foreign facilities.

We invite applications for an associate professor position at the ATC to lead the optical instrumentation activities of NAOJ and to fulfill the above-mentioned goals.

A successful candidate for this position is expected to:

- 1) Lead the research and development of new detectors that will pioneer future wide-field astronomy;
- 2) Develop a new wide-field observing instrument that will be competitive from the late 2020s to the 2030s;
- 3) Serve the astronomical community by providing newly developed detectors and associated systems and support the global infrastructure of observational astronomy instruments;
- 4) Be the point-of-contact for next generation large-scale survey observation projects by participating in and contributing to international instrument development projects.

Fostering young scientists, engineers, and technicians including Ph.D. students is also required as part of the responsibility of this position.

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 up to the end of the Japanese academic year in which the faculty reaches NAOJ's mandatory retirement age of 65. The probation period of six months is included.

6. Qualifications:

- (1) Minimum Educational Requirement: Ph.D. or equivalent in astronomy or related fields.
- (2) Other Requirements: To have a wide range of experience and skills in the field of optical instrumentation. In particular, experiences in building and commissioning instruments for large telescopes are strongly favored. Independent astronomy research record is also favored.

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) A list of referred papers and a list of patents (if any). SPIE and COSPAR proceedings 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. Reference letters should be written by faculty/staff with tenured positions. Reference letters from multiple countries are preferred. Please ask your references to upload the letters directly to the URL indicated in 9 before the deadline. Applicants are responsible for ensuring that the letters are submitted before the application deadline.

8. Application Deadline: 2022-10-31, 12:00 (noon) (Japan Standard Time)

9. Application and Contacts:

9.1 How to Apply:

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

- (1) Please access the application form at the following URL:

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

- (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 letters.
- (3) Please ask your references to upload their letters via the URL (b).
- (4) Please upload the application documents (from 7.(1) through (6)) via the URL (a). These files must be in PDF format (max 50MB each, 100MB in total, at most 10 files).
- (5) We will let applicants to know the reception status of documents including reference letters before the deadline via e-mail.

9.2. Contacts:

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

Masayuki Hirabayashi, Director of ATC, NAOJ

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

Subject of e-mail: "Question on Associate Professor of ATC"

If you have any question related to the application process or other items, contact:

E-mail: job02-associateprof_AT_ao.ac.jp (replace _AT_ with @)

Subject of e-mail: "Question on Associate Professor of ATC"

10. 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), Annual paid leave (20days: to be prorated for the first year), Summer holidays (3 days)

(3) Social Insurances:

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

(4) Remuneration:

Salary: The amount of an annual salary shall be determined based on the school career and job experiences in accordance with the NINS regulations (NINS, or the National Institutes of Natural Sciences, is an executive institute that manages NAOJ). The payment will be made monthly in 12 equivalents.

Allowances: Dependent allowance, residential allowance, commutation allowance, and the other allowances will be paid when the requirements based on the NINS regulations are all filled. The equivalent of the term-end allowance and the diligence allowance shall be included in the annual salary.

Salary Increase: Once a year in accordance with the performance evaluation

Retirement Allowance: Shall be paid

11. Remarks:

- Candidates selected in the final short list may be interviewed by the selection committee either via the internet or face-to-face. The expense for the interview will not be covered by NAOJ.
 - If the selection committee deems that there is no qualified candidate for this position, it is possible no one will be selected.
 - NINS Employee Regulations shall be applied to this position. As for annual salary, Research-Education Employee Base Annual Salary Table (2) (研究教育職本給年俸表 (二)) shall be applied.
 - 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.
 - If you have taken a leave(s) such as for maternity, child care, and/or family care, please indicate it in your curriculum vitae. We will consider it when assessing your performance.
- For further information about NAOJ's efforts to achieve gender equal society, please see <https://www2.nao.ac.jp/~open-info/gender-equality/en/>
- 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.

12. Name of recruiter

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