

JOB VACANCY ANNOUNCEMENT

- Assistant Professor, National Astronomical Observatory of Japan (NAOJ) -

NAOJ invites applications from researchers for an assistant professor position as follows:

1. Job Title: Assistant Professor, one position
2. Division and Location: Gravitational Wave Science Project (GWSP), Kamioka Branch
3. Area of Expertise: Astronomy or Physics

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 as well as in the development of space-based instruments, in the effort to promote cutting-edge astronomy utilizing these advanced telescopes. The NAOJ Gravitational Wave Science Project (GWSP) is a project office to develop gravitational wave astronomy and to contribute to the construction and operation of KAGRA, which is a 3km-scale cryogenic gravitational wave telescope constructed in Kamioka underground, Gifu, Japan, in collaboration with the Institute for Cosmic Ray Research in the University of Tokyo and High Energy Accelerator Research Organization. In addition to KAGRA, the NAOJ GWSP has another important role to manage TAMA300 (interferometric gravitational wave test facility with 300m arm-length in NAOJ Mitaka campus), aiming to develop new technologies.

We invite applications for an assistant professor position in the GWSP. A successful candidate for this position is expected to:

- 1) lead system integration, noise-hunting and stable operation with high sensitivity of the main interferometer of KAGRA;
- 2) lead upgrades of KAGRA including introductions of frequency dependent squeezing (around FY2024) and of larger main mirrors (after FY2027) into KAGRA; and
- 3) develop new advanced interferometer technologies by using TAMA300 for the upgrades of KAGRA and the plan of next generation gravitational wave telescopes.

Also we require the successful candidate to contribute fostering of young scientists including supervising students in the PhD's program as part of the responsibility.

As prerequisites for this position, applicants are expected to have a wide range of experience and skills in the field of astronomy or physics, and to have leadership for experimental projects.

5. Terms of Appointment:

The selected candidate should be able to start as soon as reasonably possible after the job offer has been accepted.

The term of the contract will continue up to the end of the Japanese academic year in which the faculty reaches NAOJ's mandatory retirement age of 65.

A review for the continuation of employment as the assistant professor will occur in the fifth year. The review may result in the candidate being requested to transfer to another position within NAOJ.

The probation period is 6 months.

6. Qualifications:

- (1) Minimum Educational Requirement: Ph.D. or equivalent
- (2) Other Requirements: Fluent English communication and Experience of hardware development

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

- (1) Cover letter;
- (2) Curriculum vitae;
- (3) Publications list (Separate refereed and non-refereed papers);
- (4) Summary of your past research activities including international collaborations;
- (5) Your commitment and plan to fulfill the duties (including your research plans as needed);
- (6) Your address (e-mail and phone) for prompt contact and the email address of your current supervisor or line manager; and
- (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 using the URL indicated in 9 before the application deadline. Applicants are responsible for ensuring that the letters arrive before the application deadline.

8. Application Deadline: 2021-12-10, 12:00 (noon) (Japan Standard Time)

9. Submission:

Applicants are required to apply via the NAOJ Nextcloud on the web. Please access the application form at the following URL:

<https://forms.office.com/r/852nBwLukW>

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

Once you get the URL(a) for your application documents, please upload the files corresponding to the documents (1) through (6) stated in 7. These files must be in PDF format (max 50MB each, 100MB in total, at most 10 files).

Please ask your references to upload their letters via the URL(b) you receive for this purpose.

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

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

Professor Tomaru, Takayuki,

Director of Gravitational Wave Science Project (GWSP), NAOJ,

Subject of e-mail: "Question on JD of Assistant Professor of NAOJ GWSP"

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

E-mail address: apply-GWSP-assisprof20211210_AT_ao.ac.jp (replace _AT_ with @)

Subject of e-mail: "Question on Assistant Professor of NAOJ GWSP"

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 equivalentents.

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 equivalentent 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:

- The work location may be Mitaka depending on the situation of the project.
 - 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.
 - 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, 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)