

Job Announcement for an Assistant Professor at the Institute of Space and
Astronautical Science, the Japan Aerospace Exploration Agency

The Japan Aerospace Space Exploration Agency (JAXA) is seeking to recruit an assistant professor as described below. We widely call for recommendations and applications.

1. Title and Number of Position(s)

One Assistant Professor

2. Department

Department of Space Astronomy and Astrophysics, Institute of Space and Astronautical Science (ISAS)

3. Summary of Position (Duties and Required Abilities)

JAXA/Institute of Space and Aeronautical Science (ISAS) promotes strategic satellite missions that will be implemented in 2020's. In the field of space astronomy and astrophysics, our goals are to "understand the origins of the space-time and matters" and to "study the possibility of life in the universe". To address these goals, especially to understand the process of structure formation in the universe and their variety and universality, ISAS promotes satellite missions for observations in various wavelength from X-ray to infrared, and radio wavelength. Current ongoing programs include the X-ray Imaging and Spectroscopy Mission (XRISM), the CMB B-mode mission (LiteBIRD), the infrared astrometry mission (Small JASMINE), and the next-generation large infrared space observatory mission (SPICA). For this call for an Assistant Professor, we expect application by the researchers who understand and engages in these ISAS plan in astronomy and astrophysics.

For this position of Assistant Professor, we call for scientists who works on the development study of the LiteBIRD mission. For the purpose of the sensitive measurement of the B-mode polarization signal of the Cosmic Microwave Background (CMB), LiteBIRD carries wide-field mm-wavelength radio telescopes that is cooled to the cryogenic temperature. The LiteBIRD focal plane sensors are also cooled to extreme cryogenic temperature to achieve ultimate low-noise mm-wavelength observations. In order to design and precisely evaluate the characteristics of such telescope system, the ground test and performance evaluation is also extremely important for the mission. It is

JAXA's responsibility to develop the observation system (Payload Module) and to ensure the capability of the satellite system. In this recruitment, we expect astrophysics researcher to actively promote such development and evaluation for the LiteBIRD mission instruments.

Especially, we expect application by the researchers who pursue the development of LiteBIRD working on the task (i) or (ii),

- (i) Design and evaluation of wide field-of-view millimeter telescope with optimizing optics, mechanical structure, and thermal model.
- (ii) Development and evaluation of millimeter-wave extremely low-noise detection system and signal processing chain

We expect the applicants who are capable and strong motivation to proceed these tasks regardless of her/his previous major.

The Job Description of this Assistant Professor also includes,

- to contribute study in astrophysics with the future JAXA space science missions based on his/her experience of cryogenic instrumentation,
- as a JAXA Academic Staff, to collaborate with university researchers understanding the idea of inter-university research and the role of JAXA/ISAS, as well as to take initiative in participating the activities inside JAXA to make contributions in study, development, and projects by her/his expertise. The Assistant Professor is also asked to participate education programs for the graduated students.

To fulfill these duties, the successful candidate needs to satisfy, at minimum, the following conditions.

- Have advanced achievements in mm-wavelength radio instrumentation, or in space cryogenic instrumentation, or in any other instrumentation in astronomy and astrophysics
- Be capable of supporting to teach and direct graduate students

4. Terms and Conditions

- (1) Salary will be determined under the provision of JAXA wage rules and regulations, taking into account ability and experience.
- (2) Working days: Monday – Friday, except Japanese national holidays, year-end and New-Year holidays, annual vacation, WLB annual leave, celebration or condolence leave, maternity leave, child-care leave, care leave, nursing leave, volunteer activities, etc.
- (3) Office hours: 9:30-17:45, in principle, with a recess from 12:15 to 13:00 (however, a discretionary labor system is applied).
- (4) Overtime work: may be required (however, a discretionary labor system is applied, and working hours per day are regarded as 7.5 hours).
- (5) Duty location: JAXA Sagami-hara campus (ISAS), Kanagawa, Japan.
- (6) Employment Status: Full-time/Retirement age is 63.
- (7) Lodgings: lodgings suitable for a family or a single occupant may be provided under the provision of JAXA in consideration of the nature of the work. (Lodging term is limited to 7 years.) Alternatively, an allowance for lodging shall be paid.
- (8) Social insurances (health insurance, pension plan, etc.) will be provided in full.

5. Eligibility

PhD degree is required.

6. Commencement of Assignment

At the earliest possible date after selection. Some coordination might be needed according to JAXA's budget situation.

7. Application Documents

- (1) Curriculum vitae
- (2) Research career
- (3) Summary of previous research
- (4) List of research achievements
- (5) Outline of future research plan (including contribution to projects and ambitions for educational activities)
- (6) List of awarded research funds through competition (type of funds, amount, principal investigator or co-investigator)
- (7) Contact information of two referees (names, addresses, telephone numbers, and e-

mail addresses for a direct inquiry from JAXA).

(8) Photocopies of major research papers (less than five) published in refereed academic journals

※If you are a resident of the European Economic Area (the EU zone), you are required to submit the following document as well.

(9) Consent form for handling personal information based on GDPR

(Form NO.1)

Download the form from the website listed in “8. Submission”.

8. Submission

Submit the application through the following website

<https://isas-appli-form.jaxa.jp/forms1/1564386070>

When submitting the documents, please follow the instructions given on the website. All of the files to be uploaded shall be in pdf format. Note that documents (2) to (6) should be merged into one pdf file.

If the applicant is recommended by others, we will request recommender(s) to directly upload their letters of recommendation to the website. (This request will be automatically sent to the email addresses of recommender(s) specified by the applicant.) Application delivered in person or by mail shall not be accepted.

9. Application Deadline

Friday, November 1, 2019, 9:30 (JST).

Applies to both web input and all necessary files, including letters of recommendation for recommended applicants.

Please access the above website and check how to submit necessary documents for application (including letters of recommendation if the applicant is recommended by others) as soon as possible. If application is made too close to the deadline, it will be difficult for recommenders to submit a letter of recommendation. Please be careful with regard to this.

10. Contact at the Institute of Space and Astronautical Science, JAXA

Director of Department of Spacecraft Engineering:

Prof. Toru Yamada

Tel: +81-50-3362-2463 E-mail: yamada.toru@jaxa.jp

For inquiries regarding Application Submission in Section 8:

Management and Integration Department

Human Resources Section

Fax: +81-42-759-8440 E-mail: ISAS-JINJI@ml.jaxa.jp

11. Other Remarks

Screening will be conducted by the Advisory Council for Research and Management of ISAS, JAXA.

Traveling expenses necessary for the examination and selection shall be borne at the applicant's own expense. ISAS/JAXA actively welcomes female applicants.

<Handling of Personal Information>

The personal information provided to ISAS/JAXA will be used and handled solely for the selection purpose. ISAS/JAXA will discard all personal information of unsuccessful applicants after the selection.

※<Consent form for handling personal information based on GDPR>

For the purposes of affairs related to the selection and human resource management, JAXA needs to collect your personal data requested in the present form.

You may at any time object to the use of your data for this purpose by writing to the following address: ISAS-JINJI @ml.jaxa.jp

You will find below all the detailed information concerning this processing of your personal data and a reminder of your rights, in application of the legislation in force.

JAXA, willing to respect the privacy and protection of personal data of its prospects and clients, complies with the legislation in force regarding the protection of personal data as data controller, and in particular Law no. 78-17 of 6 January 1978 (the "Data Protection Act") and, from 25 May 2018, Regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 on the protection of individuals with regard to the processing of personal data and the free movement of such data (the "GDPR").

JAXA does not transfer personal data to third countries or parties outside the European Economic Area.

Personnel who transfers from National University Corporation, etc.* (hereinafter referred to as “previous position”) to JAXA Educational Employee will be treated under the following contents. However, personnel who have received his/her retirement allowance (including the equivalent payment) is excluded.

* National University Corporation, Inter-University Research Institute Corporation, National Institute of Technology, National Institution for Academic Degrees and Quality Enhancement of Higher Education, and National Center for University Entrance Examinations.

1. **Period of Employment concerning Year-End Allowance**
Employment period to the previous position will be added up to the tenure as a JAXA Educational Employee.
2. **Regional Adjustment Allowance Guarantee**
Regional adjustment allowance is guaranteed based on JAXA’s regulations, considering the work location on the day before the starting day at JAXA, in case of necessity.
3. **Payment Requirements for Business Bachelor Allowance**
Allowance may be paid for those who is continuingly a business bachelor from the previous position, only in case of fulfilling the requirements based on JAXA’s regulation.
4. **Days of Annual Leave**
Remaining days and time of the annual leave from the previous position will be taken over. Therefore, JAXA will need the acquired results of annual leave at the previous position.