

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

The Japan Aerospace Exploration Agency (JAXA) will offer a job opportunity as an associate professor described below. We are looking forward to receiving recommendations for adequate people and applications from them broadly.

1. Title and Number of Position(s)

One Associate Professor

2. Department to Which the Professor Will Belong

Department of Space Astronomy and Astrophysics, Institute of Space and Astronautical Science

3. Summary of Position (Duties and Required Abilities)

JAXA/Institute of Space and Aeronautical Science (ISAS) is conducting a strategic space science program to be realized in 2020s. In the field of Space Astronomy and Astrophysics, JAXA/ISAS sets the key questions, “how the universe begins” and “how the universe evolves” as the big science goals. To address these goals and to understand the physical processes of structure formation and evolution since the early phase of the universe, JAXA/ISAS is promoting space missions by utilizing various methods that cover wide range of electro-magnetic wavelength.

In the series of the JAXA Strategic Large-Class Science Missions listed in the Implementation Schedule (Roadmap) of the Basic Plan on Space Policy, JAXA/ISAS is now conducting the X-Ray Imaging and Spectroscopy Mission (XRISM, previously called as X-ray Astronomy Recovery Mission) targeting the launch in the Japanese fiscal year 2020. It is the highest priority for JAXA/ISAS to achieve the extensive study with high precision X-ray

spectroscopy by XRISM to continue and expand the science goals of ASTRO-H. Following XRISM, ISAS is now also promoting the two Strategic Large-Class Science Missions in the concept development phase (Phase A), LiteBIRD, studying B-mode polarization of Cosmic Microwave Background (CMB) to search for primordial gravitational waves emitted during the cosmic inflation era, and then SPICA, the next generation cryogenic large-aperture telescope. It is one of the most important goals for JAXA/ISAS to steadily advance the study of these future planned missions. For all the three missions, cryogenic detector technology including verification and validation is essential, and the progress with accumulation of capability and experience of such technology is needed.

We here open a job for Associate Professor in ISAS who takes a significant role in conducting the X-Ray Imaging and Spectroscopy Mission (XRISM), and also takes initiative in promoting the JAXA/ISAS future strategic science mission in space astronomy and astrophysics (LiteBIRD or SPICA). The Associate Professor is expected to attend to the verification and validation of the X-ray micro calorie meter, *Resolve*, which is the main science instrument of the XRISM mission payload developed in collaboration with NASA and other partners.

The Job Description of this Associate Professor includes,

- To work for the development of the X-ray micro calorie meter (*Resolve*) of the X-Ray Imaging and Spectroscopy Mission, especially attending to the calibration and validation of the instrument.
- To work for the JAXA/ISAS future space mission projects planned after the XRISM project, namely, LiteBIRD or SPICA, in which the advanced technology for cryogenic detectors is also essential.
- To conduct research in the field of space astronomy and astrophysics understanding the role of JAXA/ISAS as the institute being responsible for the inter-university research activities, and to work on the other

related activities of JAXA including education of graduated students.

To fulfill these duties, the successful candidate of this Associate Professor needs to satisfy at least the following conditions.

- He/she has an advanced experience in instrumentation for space science missions. It is desired that he/she has an experience in calibration and validation of the cryogenic instruments.
  
- He/she has an advanced record in academic research in the field of astronomy and astrophysics and has a good potential to take a leadership in the future space astronomy and astrophysics mission.
  
- He/she is capable of offering education and guidance to graduate students

#### 4. Terms and Conditions

- (1) Salary will be determined according to the provisions of JAXA wage rules and regulations, considering ability and experience.
- (2) Working days: Monday – Friday, except Japanese national holidays, year-end and new-year holidays, paid vacation, summer vacation, 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) Work Place: JAXA Sagamihara campus (ISAS), Kanagawa, Japan.
- (6) Tenure and retirement age: a tenure position. Retirement at the age of 63.
- (7) Lodgings: lodgings suitable for a family or a single occupant may be provided according to the provisions of JAXA considering the necessity for the work. (Maximum lodging term is 7 years.) An allowance for lodging may be paid as an alternative measure.

(8) Social insurances: Provided in full. (health insurance, pension plan, etc.)

## 5. Eligibility

PhD degree is required.

## 6. Commencement of Assignment

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

## 7. Application Documents

- (1) Curriculum vitae
  - (2) Research career
  - (3) Outline of previous researches
  - (4) List of research papers
  - (5) Future research plan (including contribution to projects and ambitions for educational activities)
  - (6) List of awarded competitive research funds obtained so far (type of funds, amounts, investigator type (principal investigator or co-investigator))
  - (7) If the applicant is recommended by others, the names, institutions, and contact information (telephone number and email address) of two people who can submit a necessary letter of recommendation. If the applicant recommends himself/herself, the names, institutions, and contact information (telephone number and email address) of two people who can submit a reference letter.
  - (8) Electronic versions or scanned copies 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/forms1/1533623762>

When submitting the documents, please follow the instructions in the above website. All of the files to be uploaded shall be in the pdf format. Note that documents (2) to (6) should be put 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.) We will not basically accept any application forms sent by mail or brought directly by the applicant.

#### 9. Application Deadline

Regarding the inputting in the website and the submission of all necessary documents (including letters of recommendation if the applicant is recommended by others.)

The documents should arrive by 9:30 am (Japan Time) on Monday, October 15, 2018.

Please access to 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 shortly before the deadline, it will be difficult for recommenders to submit a letter of recommendation. Please be careful.

#### 10. Contact Information

Toru Yamada

Director

Department of Space Astronomy and Astrophysics

Institute of Space and Astronautical Science, JAXA

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

Contact Info for Inquiries about how to Submit Documents Described 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.

Each applicant shall bear the cost for transportation and accommodation arising out of the screening process. ISAS/JAXA actively welcomes female applicants.

<Regarding the Purpose of Use of Personal Information>

We will use personal information provided for applying for a post in JAXA only for the purpose of screening applicants, and discard the personal information excluding that of a successful applicant on our own responsibility after the screening process is concluded.

※<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.