

Job Announcement for a 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 a professor as described below. We widely call for recommendations and applications.

1. Title and Number of Position(s)

One Professor

2. Department

Department of Interdisciplinary Space Science, Institute of Space and Astronautical Science (ISAS)

3. Summary of Position (Duties and Required Abilities)

JAXA/ISAS is promoting solar system exploration with a participant typed small-scale plan and a strategic medium-scale plan, by close cooperation of astronautical engineering and the space science. It is more and more necessary to realize higher scientific observation and farther space exploration activity. In addition to the scientific result and technical accumulation to future planetary probe, it is demanded in future that we build a frame for realization at a planetary probe opportunity in high-frequency. The high-frequency technical demonstration with the micro space probe is necessary to realize challenging and advanced space exploration mission. An epoch-making space probe system and observation system are required.

The Department of Interdisciplinary Space Science is promoting new cross-cutting fields in space science with relevant studies, and emerging research fields as space science. Specifically, cross-cutting academic research with respect to “Space and Matter”, “Space and Life”, and “Space and Information” are promoted as significant pillars, and this division is actively working in particular on experiments and research using suborbital space flights or parabolic flights such as the International Space Station, sounding rockets, and scientific balloons. On the other hand, in the aim of widely seeking the participation of academic researchers in creating space science achievements as the basis of the inter-university research system, ISAS places importance to the utilization of small flight vehicles and is enhancing usage of such vehicles by innovating related technology and promoting internationalization.

The microsatellite which is one of the small flying objects is a satellite less than 100 kg in weight, and a production cost with launching expense is cheaper than a large-scale

satellite, and a thing features it during a development period having a short it. CanSat succeeded in the United States in 1999, and the number of CubeSat launching increased by a full-scale private entry explosively afterward. Moreover, the high-performance small scientific satellite "Reimei" in 2005, was launched. Then the navigation between the planets was demonstrated in micro space probe PROCYON in 2014 and invited the new age when the microsatellite use was new. In the microsatellite, the challenge to the unknown domain, technical demonstration, various uses including the cooperation with the jumbo jet are expected in the field of exploration, but the development of the micro space probe just right began, and it is the urgent business that Japan starts a first full-scale action in the world.

JAXA/ISAS is expecting to show directionality of the new scientific exploration with the micro space probe, to promote original scientific study in these research fields, and to lead the creation of a new science mission based on the scientific result with the micro space probe. Thus, the significant contribution to both medium- and small-class missions of space science exploration mission including deep space exploration is also expected based on the obtained results in research and development and mission of the micro space probe. We hereby call for applicants for the position of professor at ISAS who will push forward the research and development of the micro space probe as one of the leading members and can draw up the exploration strategy with the future micro space probe and then create and promote a new mission.

The job description includes the following duties.

- A. Take a leading role to create the future space science exploration missions by micro space probe and to promote the research and development of micro space probes.
- B. Promote research coordination between ISAS and universities, and also teaching and directing graduate students, based on the understanding that ISAS acts as an inter-university research institute.
- C. Participate in various activities in JAXA positively and contribute to research and development and project creation and promotion, by making use of ability for professional study.

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

- A. Have the research experiences and an advanced academic record in the field of micro spacecraft.
- B. Take a leading role in space science missions and have firm intention and capability

to lead research and development of small space probes.

- C. Be capable of promoting new science by micro space probe.
- D. Be capable of teaching and directing 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, 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) 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 current space science research and ambitions for educational activities)

- (6) Applicant's own opinion on a long-term vision including research of micro space probes and strategy to realize it, by taking note of the point stated in "3. Summary of Position"
- (7) List of awarded research funds through competition (type of funds, amount, principal investigator or co-investigator)
- (8) Contact information of two referees (names, addresses, telephone numbers, and e-mail addresses for a direct inquiry from JAXA)
- (9) 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.

- (10) 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/forms1/1533623806>

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 (7) 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

Monday, October 15, 2018, 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 to 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 Interdisciplinary Space Science:

Prof. Yoko Inatomi

Tel: +81-50-3362-5180 E-mail: inatomi.yuko@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](mailto: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.