

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 Spacecraft Engineering, Institute of Space and Astronautical Science (ISAS)

3. Summary of Position (Duties and Required Abilities)

ISAS/JAXA is promoting, as one of its most important tasks, science observations and explorations using spacecraft in various orbits (such as, near-earth, Lagrange points, orbiting planets and the moon, landing on planets and the moon), through close cooperation between space engineers and space scientists. The Department of Spacecraft Engineering is conducting research activities on technologies that enable more advanced and multi-faceted science observations and explorations. To realize high-precision control required by advanced space science missions of the future, we must perform research and development of new technologies that combine high-precision attitude determination/control techniques and high-precision navigation and guidance techniques. Furthermore, it is necessary to promote research and development on generic space mission design techniques combining mission design and system design with control technologies, in order to realize more advanced and skilled observations and explorations, such as advanced science observations using formation flight by multiple spacecraft.

The successful candidate shall promote original academic research in the fields described above in order to realize advanced space science missions in Japan, contribute to a great extent to ongoing and planned missions based on the academic achievements, and lead the way towards advanced missions of the future.

The job description includes, at minimum, the following.

- Lead worldwide academic research concerning high-precision navigation, guidance, and control, and space mission design required by advanced space science missions of the future, contributing to the advancement of the fields.
- Steer the development of navigation, guidance and control systems in ongoing and planned space science missions of ISAS/JAXA.
- Take a leading role in the development of spacecraft systems focusing on next-generation navigation, guidance, and control technologies, based on the academic achievements and the knowledge gained in spacecraft development.
- Promote collaboration with researchers from other universities and engage in teaching and directing graduate students, based on the understanding that ISAS/JAXA acts as an inter-university research institute

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

- Have research experiences in the development of navigation, guidance, and control systems of spacecraft, and be well recognized within the international community of researchers as the result of her/his academic activities.
- Be capable of taking a leading role in space science missions and steering research and development concerning spacecraft system development focusing on high-precision navigation, guidance, and control.
- Have experiences in forming, as a leader, communities consisting of researchers of various fields in order to conduct innovative researches in the field of space engineering. Be capable of taking a leading role when coordination between scientists and engineers is necessary.
- 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 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/forms1/1533623838>

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

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 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. Takahiro Yamada

Tel: +81-50-3362-6115 E-mail: tyamada@isas.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.