

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

The Japan Aerospace Exploration Agency (JAXA) is seeking to recruit an associate professor with a profile as described below. We widely call for recommendations and encourage applications of qualified candidates.

1. Title and Number of Position(s)

One Associate Professor (Academic Staff)

2. Department

Department of Space Flight Systems, Institute of Space and Astronautical Science (ISAS)

3. Summary of Position (Duties and Required Abilities)

ISAS/JAXA functions as a hub for the space science activities in Japan. While ISAS is a science institute of Japanese space agency JAXA, it is also embedded in the collaboration network among Japanese universities. Flight projects are the keys to promoting space science. In the network, ISAS, teaming up with other JAXA members as well as academic members outside JAXA, plays the special role of materializing flight projects. Thus, ISAS members are expected to play vital roles in running the projects.

We are looking for a highly motivated staff who can carry out his/her academic research in a project-oriented style, in collaboration with university researchers under the inter-university framework. Active participation to various JAXA projects and R&Ds to demonstrate his/her academic expertise is also expected. Human resource development for future space development and utilization is anticipated as natural outcome of the above mentioned activities.

We have started investigations on programmatic implementation of multiple solar system exploration projects and strategic deep space exploration within limited constraints. In order to construct a future space transportation system to realize such missions, we will promote innovative collaboration between space exploration engineering and space transportation engineering to construct and implement an optimal system within limited constraints efficiently and reliably. It is essential to make full use

of systems engineering to realize it.

In the department of space flight systems, we are collaborating with communities such as universities to construct an inter-orbital transportation network for deep space exploration. We are also studying future plans to expand exploration flexibility between Epsilon-class launcher and H3-class launcher. The first step toward such a future is the Destiny+ mission planned to expand the possibilities of deep space exploration with Epsilon-S rocket. Research and development of the kick stage motor is an urgent issue for the realization of Destiny+ mission. Beyond that, there remains a big problem that the upper stage motor must be renovated as debris-free after the completion of the Destiny+ project so that this kick stage motor will continue to be utilized further in JAXA's innovative satellite projects.

The job description includes the following duties.

- To promote research based on free ideas of control engineering or propulsion engineering as basic elemental technologies
- To establish systems engineering that fuses space transportation and exploration and to apply the results to future space science missions
- At early years of the job, for the time being, to lead the research and development of the kick stage for Destiny+ using a solid rocket and to lead the combustion test at the JAXA research facility.
- To take system-level initiative for renovating a debris-free upper propulsion system after Destiny+ project
- To promote systems engineering and space exploration/transportation system research to drive the maximization of space science achievements with a view of post Epsilon S rocket project under the jurisdiction of the JAXA Space Transportation Technology Division

In order to carry out the above duties, the associate professor (academic staff) recruited this time must meet at least the following conditions.

- Having research experience in propulsion engineering or control engineering and having an excellent track record of being evaluated in Japan and overseas
- Being able to lead the way in cooperation with researchers and engineers in the academic community

- Having the ability to utilize his or her own knowledge, regardless of own specialized fields, from the perspective of systems engineering, which is a fusion of space exploration and space transportation engineering, with a view to future developments in space science
- Future-oriented personnel who has a long-term vision for the future development of space transportation systems from the perspective of space science exploration, and who can embody R&D to realize it and implement it including project management
- Must have the ability to provide education and guidance to graduate students

4. Terms and Conditions

(1) Salary will be determined under the provision of JAXA wage rules and regulations, taking into account qualification and experience.

(2) Working days: Monday – Friday, except Japanese national holidays, New Year Eve 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 break from 12:15 to 13:00 (however, a discretionary labor system may apply).

(4) Overtime work: may be required (however, a discretionary labor system may apply, and working hours per day are nominal 7.5 hours).

(5) Duty location: JAXA Sagamihara 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 vision for educational activities)
 - (6) List of awarded research funds through competition (type of funds, amount, role as 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) PDF copy of major research papers (maximum 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/forms1/1597723872>

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, November 2, 2020, 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 close to the deadline, it will be difficult for recommenders to submit a letter of recommendation. Please take this into consideration.

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

Director of Department of Space Flight Systems:

Prof. Toru Shimada

Tel: +81-50-3362-2501 E-mail: shimada.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 for the in person interview shall be borne at the applicant's own expense. Applicants can request interviews be conducted through videoconferencing. ISAS/JAXA encourages 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.

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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.