

Application Guideline for academic staff position  
at the Institute of Space and Astronautical Science, JAXA

1.	Position	Assistant Professor
2.	Number of Positions	One
3.	Affiliation	Department of Space Flight Systems, Institute of Space and Astronautical Science (ISAS)
4.	Work Location	JAXA Sagami-hara Campus (3-1-1 Yoshinodai, Chuo-ku, Sagami-hara, Kanagawa, JAPAN)
5.	Starting Date	April, 1st, 2024 or the earliest possible date thereafter
6.	Term of Employment	Non fixed term
7.	Term of Probationary	First 6 months from the date of hire
8.	Job	Academic research on space flight systems including advanced materials for next-generation spacecraft
9.	Job Details and Responsibilities	<p>ISAS/JAXA is promoting a wide variety of space science activities including space astronomy using satellites in orbit around the Earth and exploration of asteroids and planets in the solar system. To conduct such kinds of challenging space missions for long-term efficiently, materials which possess high performance in terms of high heat-resistant, light-weight and so on and materials which lead the reduction of electric power consumption are desired. For instance, in addition to thermal control systems with retractable extension radiators or heat switches, mechanical control systems for extension nozzles/paddles and reusable shock-absorbing legs, are expected to decrease moving parts and energy consumption by utilizing the structural phase transformation of material, and to lead to reduce failure risk of spacecraft. Research and development of cutting-edge materials will be one of the key factors to realize the spacecraft of high energy efficiency, and such R&amp;Ds are extremely important to enhance the mission performance.</p> <p>Based on this recognition, ISAS has been promoting the research on advanced materials for autonomous thermal control systems, extension nozzle for propulsion systems, and on reliability assurance of the materials at space environment. In these activities, microstructural control is important to generate the functionalities such as autonomous drive and heat resistance and to increase reliability of the components for the missions.</p> <p>Responsibilities include (but are not limited to):</p> <ul style="list-style-type: none"> <li>• To promote research on materials with high functionalities such as autonomous drive and/or heat resistance, and on components with the materials for future space science missions</li> <li>• To actively contribute to ongoing exploration missions and space science missions as an expert of materials</li> </ul> <p>Furthermore, we are looking for a highly motivated candidate 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&amp;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 also hope for human resource who can promote joint research in collaboration with related companies as needed.</p> <p>To fulfill these duties, the successful candidate of the Assistant Professor needs to satisfy, at minimum, the following conditions.</p>

		<ul style="list-style-type: none"> <li>• Have research or practical experience in materials with functionalities such as autonomous drive and heat resistance, and have achievements that are highly evaluated worldwide.</li> <li>• Have the ability and willingness to promote research and to provide leadership on materials science and engineering to future space science missions.</li> <li>• Have the ability and willingness to actively engage in the activities required for space science project execution, not limited to his/her specialized field.</li> <li>• Be capable of teaching and directing graduate students.</li> </ul>
10.	Goal Setting	<p>The assistant professor must make important contributions to the promotion of various projects, not only in his/her own specialized field, and to become an indispensable researcher for space science in general. Based on these expectations, the candidate is required to describe his/her own goal in the document “(5) Future research plan”.</p> <p>The Research Director of the Space Flight Systems will discuss his/her career path together, considering the overall achievements during about 5 years after being employed.</p>
11.	Working Conditions	<p>(1) Salary Salary will be determined under the provision of JAXA wage rules and regulations, considering qualifications and experience.</p> <p>(2) Working Hours In principle, The Discretionary Labor System for Professional Work shall be applied. Working hours are basically from 9:30am-17:45pm. The break time shall be 45minutes if the working hours per day exceed 6 hours, and 1 hour if the working hours exceed 8 hours. Regardless of the above, those who apply The Discretionary Labor System for Professional Work shall have a deemed working time of 7 hours and 30minutes per day. Overtime work may be required depending on the work situation.</p> <p>(3) Holidays Saturdays and Sundays, National Holidays, New Year Holidays (December 29th - January 3rd), others when JAXA deems it necessary, etc.</p> <p>(4) Vacations and Leave Annual vacation, WLB (Work Life Balance) annual leave, celebration or condolence leave, maternity leave, child-care leave, care leave, nursing leave, etc.</p> <p>(5) Retirement Age Retirement age is 63.</p> <p>(6) 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.</p> <p>(7) Social insurance Social insurances (health insurance, pension plan, etc.) will be provided in full.</p>
12.	Research Funding	<p>Research funding is determined according to the budget situation of each year.</p> <p>*FY2021: Professor; ¥800,000, Associate professor; ¥800,000, Assistant professor; ¥400,000</p>

13.	Required Qualifications	PhD degree in Engineering or relevant fields
14.	Application Documents	<p>(1) Curriculum vitae  (2) Research history and summary  (3) List of published papers (with DOIs)  (4) List of awarded research funds through competition (type of funds, amount, and principal investigator/co-investigator)  (5) Future research plan (including contribution to projects and ambitions for educational activities)  (6) Names of two references with complete address and contact information (affiliation, telephone numbers, and e-mail addresses for a direct inquiry from JAXA).  (7) Photocopies of major research papers (up to 5) published in peer-reviewed or refereed academic journals</p> <p>*If you are a resident of the European Economic Area (the EU zone), you are required to submit the following document as well.  (8) Consent form for handling personal information based on GDPR (Form No. 1)</p> <p>Download the form from the website listed in “15. Submission”</p>
15.	Submission	<p>Applicants are required to apply via the following website. Please access the application form at the following URL:  <a href="https://isas-appli-form.jaxa.jp/forms1/1682568899">https://isas-appli-form.jaxa.jp/forms1/1682568899</a></p> <p>(Notes)</p> <ul style="list-style-type: none"> <li>• All the files shall be in pdf format.</li> <li>• Note that documents (2) to (5) should be merged into one PDF file.</li> <li>• Application delivered in person or by mail shall not be accepted.</li> </ul>
16.	Application Deadline	<p>September, 15th, 2023, noon (JST)</p> <ul style="list-style-type: none"> <li>• Data entry and submission of all the required documents must be completed by this deadline through the website.</li> </ul>
17.	Screening	<p>Screening will be conducted by the Advisory Council for Research for Research and Management of ISAS, JAXA.  The council will conduct a document screening, and interview those who have passed the document screening. This process is subject to change.</p>
18.	Contact Information	<p>Director of Department of Space Flight Systems  Prof. Shujiro Sawai  Email: sawai.shujiro[at]jaxa.jp *</p> <p>For inquiries regarding Application Submission in Section 15:  Management and Integration Department Human Resources Section  E-mail: ISAS-JINJI [at]ml.jaxa.jp *  *Please replace [at] in the email address with @.</p>
19.	Name of Recruiter	Japan Aerospace Exploration Agency (JAXA)
20.	Others	<p>(1) Information submitted in your application documents will not be used for any purpose other than the selection process and for contacting you with necessary notices in connection with the selection. Once the selection process is complete, we will securely dispose of all application documents and personal information, except for those submitted by the successful candidate.</p> <p>(2) Please also check the notes on JAXA HP* before applying.  * <a href="https://global.jaxa.jp/about/employ/index.html">https://global.jaxa.jp/about/employ/index.html</a></p>