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

1.	Position	Associate Professor (Academic Staff)
2.	Number of Positions	One
3.	Affiliation	Department of Spacecraft Engineering, Institute of Space and Astronautical Science (ISAS)
4.	Work Location	JAXA Sagamihara Campus (3-1-1 Yoshinodai, Chuo-ku, Sagamihara, Kanagawa, JAPAN)
5.	Starting Date	November, 1st, 2022 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, development and education on spacecraft engineering
9.	Job Details and Responsibilities	The Department of Spacecraft Engineering at the Institute of Space and Astronautical Science (ISAS) contributes to space science missions by conducting academic research on spacecraft and onboard systems that is based on electrical, electronic, and information engineering. ISAS contributes to lunar and planetary exploration missions by integrating space science with space engineering and by further enhancing inter-university collaboration, with the aim of empirically elucidating the origin and evolution of the solar system. One of the fundamental technologies required for the spacecraft in these missions is sensor micro-device technology. Microelectromechanical systems (MEMS), which are semiconductor devices comprising sensors, actuators, electronic circuits, and other mechanical element components on a semiconductor silicon substrate, have the potential to create new types of unconventional sensors and to revolutionize the miniaturization of conventional sensors. ISAS is conducting research and development (R&D) on MEMS and other sensor micro-device technologies in the hope that they will contribute to the miniaturization and performance enhancement of onboard satellite equipment, and consequently the miniaturization and performance enhancement of spacecraft systems themselves. In the development of space components, it is essential to consider the environmental conditions of space as well as the reliability that is required of spacecraft systems operating in it. We are seeking an associate professor who can conduct basic research on sensor micro-device technology for spacecraft applications as well as lead research on the semiconductor devices required for future deep-space exploration missions. The position requires cooperation with researchers and engineers in associated fields. In addition, as

		an expert in sensor micro-device technology, the recruited associate professor will also be expected to participate in and actively contribute to ISAS's upcoming deep-space exploration missions, working in collaboration with the scientists who propose scientific observations. Furthermore, we are looking for a highly motivated candidate who can carry out his/her academic research in a project-oriented style and in collaboration with university researchers under the inter-university framework. Active participation in various JAXA projects and R&D activities as a demonstration of his/her academic expertise is also expected. The development of skills needed for projects related to the future development and utilization of space is anticipated as a natural outcome of the above-mentioned activities. We are also hoping for someone who can promote joint research in collaboration with related companies as needed. To fulfill these duties, the successful candidate for the associate professor position needs to satisfy, at a minimum, the following conditions. ● Have research or practical experience in the field of sensor micro-devices on semiconductor silicon substrates, with an excellent track record of national and international achievements. ● Have the ability and desire to conduct research on sensors and micro-devices for spacecraft systems and to lead the field. ● Have a positive attitude towards contributing to the activities required for the execution of space science projects, regardless of his/her field of expertise. ● Be capable of teaching and directing graduate students.
10.	Conditions	(1) Salary Salary will be determined under the provision of JAXA wage rules and regulations, considering qualifications and experience. (2) Working Hours In principle, The Discretionary Labor System for Professional Work shall be applied. Working hours are basically from 9:30-17:45. 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. (3) Holidays

		Saturdays and Sundays, National Holidays, New Year Holidays (December 29th - January 3rd), others when JAXA deems it necessary, etc. (4) Vacation Annual vacation, WLB (Work Life Balance) annual leave, celebration or condolence leave, maternity leave, child-care leave, care leave, nursing leave, etc. (5) Retirement age Retirement age is 63. (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. (7) Social insurance Social insurances (health insurance, pension plan, etc.) will be provided in full.
11.	Research Funding	Research funding is determined according to the budget situation of each year. *FY2021: Professor; ¥800,000, Associate professor; ¥800,000, Assistant professor; ¥400,000
12.	Required Qualifications	PhD degree in Engineering
13.	Application Documents	(1) Curriculum vitae (2) Research career (3) Summary of previous research and Outline of future research plan (Including contribution to projects and ambitions for educational activities) (4) List of published papers (with impact factors or citation number) (5) List of awarded research funds through competition (type of funds, amount, principal investigator, or co-investigator) (6) Contact information of two references (names, affiliation, telephone numbers, and e-mail addresses for a direct inquiry from JAXA). If you are recommended by others, please provide two letters of reference. (7) Photocopies of major research papers (up to 5) published in peer-reviewed or 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.

		(8) Consent form for handling personal information based on GDPR (Form NO.1) Download the form from the website listed in "14. Submission"
14.	Submission	Applicants are required to apply via the following website. Please access the application form at the following URL: https://isas-appli-form.jaxa.jp/forms1/1648802063 (Notes) 1. All the files shall be in pdf format. 2. Note that documents (2) to (5) should be merged into one pdf file. 3. If the applicant is recommended by others, we will request referee(s) to directly upload their letters of reference to the website. (This request will be automatically sent to the email addresses of referee(s) specified by the applicant. If the applicant is recommended by oneself, this request will not be automatically sent.) 4. Application delivered in person or by mail shall not be accepted.
15.	Application Deadline	June, 6th, 2022, noon (JST) This deadline is for inputting the website and submitting all application documents (including reference letters by the referees if you are recommended by others).
16.	Screening	Screening will be conducted by the Advisory Council 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. *https://www.isas.jaxa.jp/en/about/organization/committee.html
17.	Contact Information	Director of Department of Spacecraft Engineering Prof. Takahide Mizuno Email: mizuno.takahide[at]jaxa.jp * For inquiries regarding Application Submission in Section 14: Management and Integration Department Human Resources Section E-mail: ISAS-JINJI [at]ml.jaxa.jp * *Please replace [at] in the email address with @.
18.	Name of Recruiter	Japan Aerospace Exploration Agency（JAXA）
19.	Others	(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. (2) Please also check the notes on JAXA HP* before applying. * https://global.jaxa.jp/about/employ/index.html