

Department of Astronomical Science, School of Physical Sciences
The Graduate University for Advanced Studies, SOKENDAI
Application Guidelines October 2021 (SOKENDAI Recommendation)
(Monbukagakusho: MEXT Scholarship Student)
Priority Graduate Program: International PhD Program on Data Science for
Space ~ Particle ~ Material ~ Energy Science

Depending on the circumstances such as further spread of COVID-19, the application procedures, selection schedule, selection method, and other details may change.

Please note that information related to the entrance examination will be posted on the SOKENDAI website. Please carefully check the following website during the period before the application and examination, in order not to miss important notices.

<https://www.soken.ac.jp/news/6623/>

1. General Prospectus

The Graduate University for Advanced Studies, SOKENDAI was founded on October 1, 1988 as one of the national universities of Japan. The basic idea of SOKENDAI is to develop a new system of postgraduate education in Japan. Its key features are as follows;

- 1) SOKENDAI offers both three-year and five-year doctoral programs.
- 2) SOKENDAI consists of six schools with 20 departments operated by 17 Inter-University Research Institutes and Independent Administrative Institutions (“parent institutions”).
- 3) Research and education are carried out in close cooperation with the parent institutions.
- 4) Broad and international visions are fostered by enhanced interchange among all departments and other universities in Japan and abroad.

The parent institutions provide Japanese and foreign scientists with opportunities to conduct advanced joint research in various branches of science. They are equipped with extensive research facilities and function as centers for advanced studies. At present, they are cooperating in establishing a world-class program of postgraduate education in SOKENDAI.

2. Department Outline

The Department of Astronomical Science, School of Physical Sciences, SOKENDAI, is a graduate school based at the National Astronomical Observatory of Japan, a member institute of the National Institutes of Natural Sciences. The goal of the department is to train researchers capable of doing cutting-edge research, to train specialists capable of developing advanced

technologies, and to develop human resources with the highly-specialized knowledge needed to work in the scientific field. To this end, graduate students conduct observational and theoretical research and research on the development of new instruments related to astronomical science in an environment equipped with state-of-the-art observational instruments and supercomputers.

Webpage: <https://www.guas-astronomy.jp/eng/Intro/outline.html>

3. Program Outline

This MEXT scholarship is offered for the special program “International PhD Program on Data Science for Space, Particle, Material, Energy Science” in SOKENDAI. The purpose of the program is to cultivate global researchers and highly skilled professionals of the next-generation, who should lead researches on physical sciences using data science (PS/DS) as well as data science toward physical sciences (DS/PS). In particular, basic as well as applied research fields of space, particle, material, and energy sciences should be emphasized in this special program. The School of Physical Science and the School of High Energy Accelerator Science of SOKENDAI will accept total of eight outstanding students for 3-year and 5-year Ph.D. programs starting in October of 2021, who are keen to study in PS/DS and DS/PS fields under the name of this program. For this program, application is open to anybody with any nationality of a country that has diplomatic relations with the Japanese government. At least 50% of the scholarship students are selected from Southeast Asian countries in this program.

4. Doctor's Degree Requirements

Doctor of Philosophy shall be conferred to students who have satisfied the requirements of their respective program as prescribed below.

[Three-year doctoral program]

Students must be enrolled in SOKENDAI for at least three years; additionally, they must earn the necessary credits, receive necessary research guidance, and pass the examination for a doctoral thesis. Students who are recognized as having achieved significant progress may be able to graduate in a shorter time frame.

[Five-year doctoral program]

Students must be enrolled in SOKENDAI for at least five years; additionally, they must earn the necessary credits, receive necessary research guidance, and pass the examination for a doctoral thesis. Students who are recognized as having achieved significant progress may be able to graduate in a shorter time frame.

5. Qualifications for Application

[Qualifications for the three-year doctoral program]

Applicants must fulfill one of the following conditions;

- 1) Applicants on whom a Master's degree or a degree equivalent to a Professional degree has been conferred or is expected to be conferred in a foreign country by the preceding month of enrollment;
- 2) Applicants who hold or are expected to obtain a Master's degree or a Professional degree by the preceding month of enrollment in Japan;
- 3) Applicants who have been recognized by SOKENDAI as having academic ability equivalent to or superior to those who have a Master's degree or a Professional degree by the individual screening of Admission Qualifications of SOKENDAI, and attain the age of 24 by the end of preceding month of enrollment. (Note)

Notes:

*Applicants who intend to apply under the provision (3) above are required to have qualification screening to confirm "having academic ability equivalent to those who have a Master's degree or a Professional degree" before the application can be submitted. If applicable, please contact the Student Affairs Section by email in advance.

* The qualifications concern not the date of completion of the master's course of study, but the date of conferral of a master's or equivalent professional degree. Those who have completed or are expected to complete a master's course before the time of enrollment in the program, but are not expected to be granted a master's or professional degree by that time must take extra screening procedures before the application.

*Other than the qualifications above (Qualification 1 to 3), eligible applicants include those who otherwise satisfy or will satisfy qualification requirements for admission to SOKENDAI. If you have any questions regarding the qualification for admission, please contact the Student Affairs Section in advance.

[Qualifications for the five-year doctoral program]

Applicants must fulfill one of the following conditions;

- 1) Applicants who have completed or are expected to complete a 16-year course of school education in a foreign country by the preceding month of enrollment;
- 2) Applicants who have graduated or are expected to graduate from a Japanese university specified in Article 83 of the School Education Law by the preceding month of enrollment;
- 3) Applicants who have been conferred or are expected to be conferred a degree equivalent

to a Bachelor's degree by the preceding month of enrollment by completing an educational course of three or more years in a foreign university or in a foreign educational institute;

- 4) Applicants who have completed a 15-year course of school education in a foreign country by the end of preceding month of enrollment; (Note)
- 5) Applicants who have been recognized as having academic ability equivalent to a university graduate or higher by the individual screening of Admission Qualifications of SOKENDAI, and attain the age of 22 by the end of preceding month of enrollment. (Note)

Notes:

Applicants who intend to apply under the provisions (4) or (5) are required to have qualification screening before the application can be submitted. If applicable, please contact the Student Affairs Section by email in advance.

*Other than the qualifications above (Qualification 1 to 5), eligible applicants include those who otherwise satisfy or will satisfy qualification requirements for admission to SOKENDAI. If you have any questions regarding the qualification for admission, please contact the Student Affairs Section in advance.

6. Application Procedures

[Application Period]

From October 12, 2020 to November 11, 2020*

*The application must arrive no later than the last day of the application period without fail.

[Application Method]

Please contact a faculty member of the department whom you would like to study under in advance. The complete set of application documents must be submitted **by registered express mail or a similar service.**

The application must reach SOKENDAI no later than the last day of the application period.

Mailing address;

Student Affairs Section, Division of Academic and Student Affairs
The Graduate University for Advanced Studies, SOKENDAI
Shonan Village, Hayama, Miura, Kanagawa 240-0193 JAPAN
Telephone number +81-46-858-1526

7. Selection Schedule and Method

We will carry out the selection by two steps. The first step is paper screening and the second step is interview. Only the applicants who passed the paper screening can proceed to the

interview.

[Five-year doctoral program]

(1) Paper screening

We will review English score record (TOEFL iBT or IELTS), GRE Subject Test (Physics) Score Record and other application forms carefully and decide whether the applicant can proceed to the interview or not. We will notify the result of the paper screening to the applicants via e-mail by two weeks before the interview day.

(2) Interview

We will ask applicants of their past study, research plans and other general matters. The interview will be held on December 11, 2020.

[Three-year doctoral program]

(1) Paper screening

We will review English score record (TOEFL iBT or IELTS) and other application forms carefully and decide whether the applicant can proceed to the interview or not. We will notify the result of the paper screening to the applicants via e-mail by two weeks before the interview day.

(2) Interview

Applicants are asked to have a presentation on their past study first. PC projector can be provided for the presentation. Then an oral examination follows. At the oral examination, applicants are provided with a text about basic physics and astronomy in English and to answer questions based on it. Following that, interview is carried out to review the applicant's research plans and other general matters. The interview will be held on December 11, 2020.

8. Announcement of Result

Preliminary admission and scholarship announcements will be sent in April 2021.

Final announcements will be sent by July 2021.

9. Contact details for inquiries

Student Affairs Section, Division of Academic and Student Affairs

The Graduate University for Advanced Studies, SOKENDAI

E-mail: gakusei@ml.soken.ac.jp

Application Guidelines for Japanese Government (Monbukagakusho: MEXT) Foreign Research Student Scholarship 2021 (SOKENDAI Recommendation)

The Ministry of Education, Culture, Sports, Science and Technology (MEXT) offers a Japanese government scholarship to foreign students who wish to study at the Department of Astronomical Science, SOKENDAI by its recommendation as follows.

1. Qualifications and conditions

1) Applicants:

The scholarship is offered to new foreign students who have earned the equivalent level of a graduate with outstanding academic performance. The applicant must have a minimum GPA 2.3 or higher and are expected to maintain the equivalent level during the scholarship period.

2) Nationality:

The applicant must hold a nationality of a country that has diplomatic relations with the Japanese government. The applicant who holds Japanese citizenship at the time of application is not eligible.

3) Age:

The applicant must be under 35 years old as of April 1, 2021. (The applicant must have been born on or after April 2, 1986.)

4) Academic Background:

The applicant for the five-year doctoral program must have completed a 16-year course of study in the educational institutions of a foreign country or is expected to complete such course of study by September 30, 2021.

The applicant for the three-year doctoral program must have been granted or be expected to be granted a Master's degree or a Professional degree by September 30, 2021.

For the detail, please find "4. Qualifications for Application" in the application guidelines above.

5) Study Area:

The study area must be in the same field as the applicant has studied or in the related one. The field of study must be the one available at SOKENDAI.

6) Language ability:

The applicant must fulfill at least one of the requirements listed below.

a) Holds an English proficiency test score equivalent to B2 or above on the CEFR (Common European Framework of Reference for Languages).

To see the CEFR Equivalency Chart, please confirm following webpage.

https://www.soken.ac.jp/cms_upload/CEFR.pdf

b) Has completed an educational program whose primary language of instruction is English that satisfies the entrance requirements to the Five-year doctoral program or Three-year doctoral program at SOKENDAI

7) Health:

The applicant must be physically and mentally healthy enough to take graduate studies at a university in Japan.

8) Arrival in Japan:

The applicant must be able to arrive in Japan on the dates designated by SOKENDAI in the period between the middle of September and the beginning of October, 2021. (The applicant who cannot arrive in Japan within the designated period should decline the acceptance. Those who arrive in Japan before the designated date for personal reasons will NOT be provided traveling expenses to Japan.)

9) Visa Requirement:

If selected, the applicant will be required to acquire a “Student (ryugaku)” visa in the home country prior to coming to Japan and enter Japan with “Student” status. Therefore, the successful applicant who is already in Japan under a different resident status must change his/her resident status to “Student” by the end of September, 2021 and re-enter Japan with “Student” status. (The applicant who comes to Japan with a visa or resident status other than “Student” will NOT qualify for the Japanese government scholarship. Also, please note that the applicant who changes his/her resident status to any status other than “Student” after entry into Japan will lose his/her status of a Japanese government scholarship student.) Please be informed that there is a possibility that your application for the original resident status may not be approved after the period of MEXT scholarship student.

10) Others:

The student under the conditions stated below will NOT be considered as a candidate.

- a) Military personnel and military civilian employees registered on the active list;
- b) The applicant who is not able to arrive in Japan on the appointed dates;
- c) The applicant who has received the MEXT scholarship within the past three years (However; this restriction does not apply to those who have been enrolled as a scholarship student in Japanese language and culture program or as a scholarship student in the Japan-Korea Joint Undergraduate Course for Science and Engineering.)
- d) The applicant who applies for another MEXT scholarship.
- e) The applicant who has enrolled in a Japanese university with “Student (ryugaku)”

status at the time of the application and has enrolled/will be enrolled in a Japanese university as a privately-financed foreign student between the time of application and the beginning of the scholarship payment. If the applicant who has enrolled/will be enrolled in a Japanese university as a privately-financed foreign student surely knows at the time of the application that he/she will return to his/her home country before the scholarship period starts and will acquire a “Student” visa and enter Japan with the visa, the preceding paragraph shall not apply to the applicant.

- f) The applicant who has already won a scholarship from another institution (including the government of his/her home country) other than MEXT.

2. Term of Scholarship

- 1) Three-year doctoral program

The scholarship will be payable for three years (standard program term, starting October 2021 and finishing September 2024.)

- 2) Five-year doctoral program

The scholarship will be payable for two years (the first two years of the standard program term, starting October 2021 and finishing September 2023.) For the grantee to extend his/her scholarship till the end of the standard program term (till September 2026), he/she should make an application for the extension of the scholarship which must be approved by MEXT. Please note that depending on his/her academic achievement and the budget condition of MEXT, his/her application will not necessarily be approved.

3. Scholarship Benefits

- 1) Scholarship amount:

The scholarship amount for 2021 has not been fixed yet.

For reference, the scholarship amount for 2020 is as follows.

Enrolled Program	Amount of Stipends per month
1 and 2-year student of five-year doctoral program	147,000 yen
3 to 5-year student of five-year doctoral program, 1 to 3-year student of three-year doctoral program	148,000 yen*

*In case the grantee's principal place of research is Mitaka campus. The amount may differ depending on the grantee's principal place of research.

The amount for 2021 may change depending on the budget conditions

The scholarship will NOT be paid to the grantee who takes a leave of absence from the university or does not attend classes for an extended period of time.

2) Transportation to Japan:

According to his/her itinerary and route as designated by MEXT, the grantee will be provided an economy class air ticket from the international airport nearest to his/her home address to Narita airport, or the international airport in Japan nearest to the campus of SOKENDAI where the grantee is placed. Other expenses such as inland transportation from his/her place of residence to the international airport, airport tax, and any special taxes on overseas travel, will NOT be provided. (The address stated in the application is considered as "home address of the grantee".)

*No air tickets will be issued to the grantee for a route from any countries other than the country of his/her nationality.

3) Transportation from Japan:

For the grantee who returns to his/her home country by a specified date after the period of his/her scholarship has ended, MEXT will pay for an economy class air ticket from Narita airport or the international airport in Japan nearest to the campus of SOKENDAI where the grantee is placed to the international airport nearest to his/her home address.

* The grantee should purchase air travel insurance at his/her own expense.

* The airports for departure and return should be in the country of the grantee's nationality.

4) Education fee:

Fee for the matriculation and tuition at SOKENDAI will be paid by MEXT.

4. Recommendation and Selection

1) Scholarship Recommendation:

After screening at SOKENDAI, the President of SOKENDAI recommends applicants who have shown academic excellence to MEXT.

2) Scholarship Selection:

Candidates are screened and selected by the selection committee from a pool of applicants recommended by presidents of all universities in Japan. Based on the result of screening and selection by the committee, MEXT selects grantees and their term of scholarship.

3) Documents to be submitted:

- a) Application Form (Attached)
- b) Field of study and Research Plan (Attached)
- c) Photograph or digital image sized 4.5 cm x 3.5 cm taken within the past six months (Full-faced photograph. When photographed, the applicant must not wear a hat or cap hiding a part of his/her face or head. The applicant must write his/her name and

nationality on the back of the photograph.)

d) Proof of nationality (A copy of the applicant's passport is most preferable.)

e) Certified academic records (originals or certified copies)

The applicant must submit certified academic records of each academic year of all universities attended (issued by the university attended.)

➤ The applicant who applies for the three-year doctoral program must submit the official transcripts from both undergraduate and graduate schools.

➤ The applicant who applies for the five-year doctoral program must submit the official transcripts from the undergraduate school.

➤ Submit official transcript of each academic year of all the universities or graduate schools you have attended.

f) Diploma or degree certificate (originals or certified copies)

The applicant must submit a diploma or degree certificate of all universities attended (or a document certifying that the applicant will graduate from the university by September 2021.)

➤ The applicant who applies for the three-year doctoral program must submit the certificate of graduation both undergraduate and graduate schools.

➤ The applicant who applies for the five-year doctoral program must submit the certificate of graduation from the undergraduate school.

➤ The applicant who has not yet graduated from a university must submit an attested document certifying that the applicant will graduate from the university before entering the doctoral program.

g) Proof of the applicant's academic level, such as the academic ranking in his/her previous university (e.g., GPA, ABC grading, ranking of academic achievement.)

h) Dean's recommendation letter from the home institution, addressed to the President of SOKENDAI (original)

i) Abstracts of thesis

If the applicant has no thesis or publications, please submit a summary of his/her current research project.

j) Certificate of English proficiency

The applicant must submit a certificate of English in either way shown below.

i. Official score report, such as TOEFL, IELTS, proving that applicants have their English proficiency equivalent to CEFR (Common European Framework of Reference for Languages) B2 level or above. Please note that the applicant must have been taken one of the above tests after January 1, 2019.

ii. Document to certificate that the applicant has completed a bachelor's course

(for the Five-year doctoral program) or a master's course (for the Three-year doctoral program) in English as main language.

* If the relevant document will not be available before the submission due date, the applicant can (1) send a screenshot of online score report or a copy of term reports to the Graduate Student Affairs Section in NAOJ (daigakuin@nao.ac.jp) by e-mail, on or before November 25, 2020 and (2) arrange the official records to be sent to SOKENDAI.

k) GRE Subject Test (Physics) Score Report (five-year doctoral program only)

- Note that the minimum GRE Subject Test (Physics) score in the paper screening is 700.
- If the official score report will not be available before the submission due date, the applicant can (1) include a copy of registration confirmation e-mail from ETS to the application documents, (2) send a screenshot of online GRE Subject Test (Physics) Score Report to the Graduate Student Affairs Section in NAOJ (daigakuin@nao.ac.jp) by e-mail, on or before November 25 2020 and (3) arrange the official records to be sent to SOKENDAI.

5. Additional considerations

- 1) The documents above must be prepared in Japanese or English. If the documents are prepared in languages other than Japanese or English, the official English translation must be attached.
- 2) The documents above must be prepared using word-processing software. Print all required documents on A4 size paper. (if possible)
- 3) SOKENDAI does not respond to inquiries regarding the receipt of individual application documents.
- 4) SOKENDAI will not return submitted documents. In the case that a document is not re-issuable, please submit an attested (notarized) copy instead.
- 5) Admission may be withdrawn at any time even after enrollment if the application documents are found to be invalid or contain false information.

6. Notes

- 1) The recipient of the MEXT scholarship may have his/her scholarship revoked in the following cases. In case the recipient wrongly receives the scholarship under the following circumstances, he/she may be required to return the scholarship for the period.
 - a) When the recipient has made false statements on the application;

- b) When the recipient violates his/her contractual agreement with MEXT;
 - c) When the recipient has been the subject of disciplinary action at SOKENDAI;
 - d) When it becomes definitive that the recipient will not be able to graduate (or complete the program) within the standard program term because of his/her poor academic achievement or suspension;
 - e) When the recipient changes his/her "Student" visa status to some other status of residence;
 - f) When the recipient receives other scholarships (excluding grants for specific research projects);
 - g) When the recipient proceeds to the higher courses without the approval for the extension of scholarship by MEXT;
 - h) When the recipient withdraws from SOKENDAI or transfers to a different graduate school.
- 2) If the recipient takes a leave of absence from SOKENDAI or does not attend classes for an extended period of time, he/she will NOT receive scholarship payments during the period.
- 3) Security Export Control: Depending on the specifics of the education and research instructions they wish to receive upon entering the program, applicants may be subject to regulations on the export/transfer of controlled technologies based on the Foreign Exchange and Foreign Trade Law. Please consult the Student Affairs Section for further details.