

**October 2022 Admission**

**Graduate School of Advanced Science and Engineering  
(Master's Course)  
Division of Advanced Science and Engineering**

# **Special Selection for International Students [For Students Living Outside Japan] Application Guidebook**

**Mathematics Program  
Physics Program  
Earth and Planetary Systems Science Program  
Basic Chemistry Program  
Applied Chemistry Program  
Chemical Engineering Program  
Electrical, Systems, and Control Engineering Program  
Mechanical Engineering Program  
Transportation and Environmental Systems Program  
Architecture Program  
Civil and Environmental Engineering Program  
Informatics and Data Science Program  
Smart Innovation Program  
Quantum Matter Program  
Transdisciplinary Science and Engineering Program  
(Environmental and Natural Sciences)**



**March 2022**

**HIROSHIMA UNIVERSITY**

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# I Admission Policy

## 1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Master's Course)

The Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to natural science, engineering, and information science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to natural science, engineering, and information science as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

## 2. Admission Policy of each Program

### [Mathematics Program]

The Mathematics Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① A strong questing mind for the mathematical truth and an ambition to make a progress in specialized and/or inter-disciplinary research of mathematics;
- ② The will to be engaged in professional occupations such as researchers, educators, and engineers in mathematics areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to mathematics as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### [Physics Program]

The Physics Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① The will to obtain state-of-the-art knowledge in areas of physics based on the point of view of researchers on a top international level;
- ② The will to obtain fundamental knowledge in contemporary physics to be engaged in researching jobs, educational jobs, and/or advanced engineering jobs related to areas of physics;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to physics as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### [Earth and Planetary Systems Science Program]

The Earth and Planetary Systems Science Program seeks students who have the following aspirations

and motivation and have the basic academic abilities necessary for it:

- ① An ambition for acquiring advanced expertise and research techniques related to the earth and planetary systems science;
- ② The will to be engaged in professional occupations such as researchers, educators, and engineers in areas of the earth and planetary systems science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to mathematics as well as a wide range of intelligence, in addition to a strong curiosity about not only the earth and planetary systems science but also for the other areas; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Basic Chemistry Program]**

The Basic Chemistry Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① Basic knowledge and ability of comprehension, examination, and presentation regarding the basic chemistry and an ambition for taking part in the academic and/or inter-disciplinary research;
- ② The will to be engaged in professional occupations such as researchers and engineers in basic chemistry areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to basic chemistry as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Applied Chemistry Program]**

The Applied Chemistry Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in applied chemistry areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to applied chemistry as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Chemical Engineering Program]**

The Chemical Engineering Program requires the student who enters this program to have not only ambitions and characteristics described below but also the basic academic skills necessary to achieve it:

- ① Ambition for academic research and cross-disciplinary activities;
- ② Will for being engaged in the profession that requires expertise such as a researcher and engineer in chemical engineering areas;
- ③ Zeal for establishing the "science that enables sustainable development" from diversified points of view and solving problems in the local community and the international society, in addition to knowledge and study skills for the academic areas related to the chemical engineering as well as wide range of intelligence; and
- ④ Common sense and ethics required for an adult.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects

applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Electrical, Systems, and Control Engineering Program]**

The Electrical, Systems, and Control Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to electrical engineering and systems engineering that constitutes the core of the electrical, systems, and control engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the electrical, systems, and control engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Mechanical Engineering Program]**

The Mechanical Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in mechanical engineering areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the mechanical engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Transportation and Environmental Systems Program]**

The Transportation and Environmental Systems Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas of the transportation system engineering or the environmental system engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the transportation system engineering and the environmental system engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Architecture Program]**

The Architecture Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in architecture areas;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and

for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to architecture as well as a wide range of intelligence; and

- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

#### **[Civil and Environmental Engineering Program]**

The Civil and Environmental Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to work as a high-level engineer or researcher in areas of civil and environmental engineering including disaster prevention and mitigation engineering;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the civil and environmental engineering as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

#### **[Informatics and Data Science Program]**

The Informatics and Data Science Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to work as a high-level engineer or researcher in areas of the informatics and data science;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the informatics and data science as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

#### **[Smart Innovation Program]**

The Smart Innovation Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for academic research and inter-disciplinary activities;
- ② The will to be engaged in professional occupations such as researchers and engineers in areas related to the smart material development, the smart measurement and control, and their fusion technologies;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the smart material development, the smart measurement and control, and their fusion technologies as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

#### **[Quantum Matter Program]**

The Quantum Matter Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① The will to be engaged in professional occupations such as researchers and engineers in area of the basic materials science, condensed material physics, material science and engineering, and electronic

engineering;

- ② An ambition for acquiring knowledge and skills related to areas mentioned above regardless of the experience and background before entering the university;
- ③ A wish to build up new businesses as well as exploring scientific facts and applying scientific findings from the academic point of view;
- ④ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the basic materials science, condensed material physics, material science and engineering, and electronic engineering as well as a wide range of intelligence; and
- ⑤ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

### **[Transdisciplinary Science and Engineering Program]**

The Transdisciplinary Science and Engineering Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

- ① An ambition for the promotion of advanced and high-level academic and inter-disciplinary research;
- ② Interest in a new academic area in addition to both of the nature-oriented and human-oriented thoughts;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to natural science, engineering, and interdisciplinary areas such as the information science and the international cooperation studies as well as a wide range of intelligence; and
- ④ Common sense and ethics required for a member of society.

In order to admit such individuals, Graduate School of Advanced Science and Engineering selects applicants through a multifaceted and comprehensive evaluation process based on its own Diploma Policy and Curriculum Policy, using interviews, academic tests, and external examinations.

## II Programs and Number of Students to be Admitted

The Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering in Hiroshima University will accept applicants in Special Selection for International Students [For Students Living Outside Japan] for October 2022 admission to the Master's Course as indicated below.

Division	Program	Capacity	Admission capacity	Contact Submission address for application documents
Division of Advanced Science and Engineering	Mathematics Program	449	Several students	Support Office for the fields of Science 739-8526 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468
	Physics Program			
	Earth and Planetary Systems Science Program			
	Basic Chemistry Program			
	Applied Chemistry Program			Support Office for the fields of Engineering 739-8527 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7518
	Chemical Engineering Program			
	Electrical, Systems, and Control Engineering Program			
	Mechanical Engineering Program			
	Transportation and Environmental Systems Program			
	Architecture Program			
	Civil and Environmental Engineering Program			
	Informatics and Data Science Program			Support Office for the fields of Science (AdSM) 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009
	Smart Innovation Program (Applied Chemistry)			
	Smart Innovation Program (Electrical, Systems, and Control Engineering)			
	Quantum Matter Program		Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-6316	
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)				
Transdisciplinary Science and Engineering Program (Development Sciences)	Capacity is separately reserved.	Support Office for the fields of International Development and Cooperation 739-8529 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-4680		

(Caution)

(1) Consult with the faculty who is expected to be your academic supervisor about your research theme before applying.

For the information regarding the faculty of the Graduate School of Advanced Science and Engineering (hereinafter referred to as “the Graduate School”), refer to the following website.

URL: <https://www.hiroshima-u.ac.jp/en/adse/research>



(2) For “Transdisciplinary Science and Engineering Program (Development Science),” the selection will be separately held. For the details, refer to the following website.

URL: [https://www.hiroshima-u.ac.jp/en/adse/admission/d\\_admission](https://www.hiroshima-u.ac.jp/en/adse/admission/d_admission)



### III Application Eligibility

#### 1. Application Eligibility

Those who are of a non-Japanese nationality, live outside Japan at the time of application, and meet or are expected to meet the application eligibility specified by the desired Program by September 30, 2022.

◆ Mathematics Program / Physics Program / Earth and Planetary Systems Science Program / Basic Chemistry Program (hereinafter referred to as “Science Programs”) / Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)

Those who meet or are expected to meet either of the following criteria (1) to (11) by September 30, 2022.

◆ Applied Chemistry Program / Chemical Engineering Program / Electrical, Systems, and Control Engineering Program / Mechanical Engineering Program / Transportation and Environmental Systems Program / Architecture Program / Civil and Environmental Engineering Program / Informatics and Data Science Program / Smart Innovation Program (hereinafter referred to as “Engineering Programs & Informatics and Data Science Program”) / Quantum Matter Program

Those who meet or are expected to meet either (3) (6) or (10) of the following criteria by September 30, 2022.

- (1) A person who graduated from a university or college.
- (2) A person who earned a bachelor's degree from the National Institution for Academic Degrees and Quality Enhancement of Higher Education according to the provision of Section 7 of Article 104 of School Education Act (Act No. 26 of 1947) , or is expected to be conferred (Hereinafter referred to as “Expected graduate”).
- (3) A person who earned a bachelor's degree after passing through a 16-year school education course in a country other than Japan.
- (4) A person who studied the class subjects provided by a foreign school as a correspondence course in Japan and, as a result, completed the 16-year school education course in the concerned foreign country.
- (5) A person who completed an education course in Japan provided by a foreign education institute which is established as an undergraduate course (limited to that for which the person who completed the course is regarded as having completed the 16-year school education course in the concerned foreign country) within the school education system in the concerned foreign country and has been separately specified by the Minister of Education, Culture, Sports, Science and Technology (MEXT).
- (6) A person who earned a degree equivalent to a bachelor's degree after completing a course of which the term is 3 years or longer (including a person who studied the class subjects provided by a foreign school as a correspondence course in Japan and completed the concerned education course; and a person who completed the education course in Japan provided by a foreign education institute which is established within the school education system in the concerned foreign country and is specified in the item (5) above) in a university or the other school in a foreign country, which has been evaluated for the comprehensive conditions of the education and research activities by a person who is authorized by the government or the concerned institutions of the concerned foreign country or has been separately specified as equivalent by MEXT.
- (7) A person who completed, after the date specified by MEXT, the specialized course of a specialized training college (limited to that meets the criteria specified by MEXT, such as its term is 4 years or longer) which is separately specified by MEXT.
- (8) A person who has been specified by MEXT (as defined in the Notification of Ministry of Education, No. 5 of 1953: e.g. a person who graduated from a university established under the University Ordinance in 1886 or a college established under a law stipulated for the concerned government agency regarding its establishment such as the act for establishment, order for organization, and individual law for the Incorporated Administrative Agencies).
- (9) A person who wishes to transfer to the Graduate School after once entering other graduate school according to Section 2 of Article 102 of the Act and has been approved by the Graduate School as having academic abilities required for the education in the Graduate School.
- (10) A person who has been approved by the Graduate School as having academic abilities equivalent or superior to those of bachelor degree holders according to the result of the examination that was separately conducted, and is 22 years or older.

(11) A person who has been enrolled in a university for a period of three years or longer (including those who have been certified by MEXT as equivalent to such) and has obtained credits in the subjects designated by the Graduate School with excellent academic performance.

(Caution) The applicant who falls under either of the criteria (9) (10) or (11) above is subject to a preliminary evaluation of the application eligibility (refer to "3. Preliminary Evaluation").

## 2. Application Requirements

Those who apply for Engineering Programs & Informatics and Data Science Program or Quantum Matter Program must meet either of the following requirements.

- ① Able to submit a score certificate of the English-language proficiency examination which was held in the period from May 2019 to the time of application such as TOEIC® (score 600 or above), TOEFL®-PBT (score 505 or above), TOEFL®-ITP (score 505 or above), TOEFL®-iBT (score 63 or above), IELTS Academic (score 5.5 or above) or Cambridge English Qualifications (score 160 or above) at the time of application; or
- ② Able to submit a certificate indicating that the applicant has received a higher education in English.

## 3. Preliminary Evaluation

### (1) Preliminary Evaluation

The applicant who falls under either of the application eligibility (9) (10) or (11) above must follow the procedures below and pass a preliminary evaluation of the application eligibility.

#### a) Application Period

Monday, April 11, 2022 - 17:00, Friday, April 22, 2022

(Indicate the phrase "Application Form for Preliminary Evaluation is enclosed." in red on the front surface of the envelope.)

#### b) Application Documents

Submit all the documents listed below at once during the application period to the respective Support Offices indicated in the section "II Programs and Number of Students to be Admitted". Download the specified forms (a and b) from the website of the Graduate School.

	Document Name	Note
a	Application Form for Preliminary Evaluation	Use the specified form to prepare.
b	Record of Preliminary Evaluation	Use the specified form to prepare.
c	Statement of motivation for entering the Graduate School and research plan for the Master's Program	Use A4-sized sheets; free format

(2) The results of the preliminary evaluation will be notified to the applicants by e-mail or by post by Friday, May 6, 2022.

(3) The applicants who have successfully passed a preliminary evaluation need not submit "Research plan" listed in the section "V Application Documents".

## IV Application Procedure

### 1. Application Method

Apply via internet and submit the application documents.

- ① Input the information regarding the application on the website.
- ② Pay the entrance examination fee of 30,000 yen.
- ③ Mail the application documents.

(Caution)

The application via internet will not be completed when only the input of the information on the website and the payment of the entrance examination fee are done. It is required to mail the application documents to be received before the deadline. The application will not be accepted when the applicant only sends the application documents.

### 2. Application Period

The applicant must complete all the processes ①, ②, and ③ described above in the “1. Application Method” during the application period.

**Monday, May 9, 2022 - Friday, May 20, 2022 no later than 17:00**

### 3. Application via internet

◆ Inquiry regarding the system

**Internet application help desk (only Japanese language available)**

Service Hours: 10:00 - 18:00 (closed on Saturday, Sunday, and national holidays from April to the end of July)

Tel: 03-5952-3902

(International calls and calls on IP telephony can also be received)

**UCARO Office (only Japanese language available)**

Service Hours: 10:00 - 18:00

Tel: 03-5952-2114

(International calls and calls on IP telephony can also be received)

○ About unclear points regarding the entrance examination, ask the respective Support Offices indicated in the section "II Programs and Number of Students to be Admitted".

Business Hours: 8:30 - 17:00 (closed on Saturday, Sunday, and national holidays)

Complete the following 8 steps during the application period.

**Step 1: Access the Internet Application System.**

Access the following web page:

**Hiroshima University's Admission Information**  
<https://www.hiroshima-u.ac.jp/en/nyugaku>



**Step 2: Select the item "Registration for UCARO" on the login screen of UCARO.**

Account registration for UCARO (free for charge) is required for application.

Hiroshima University uses the system of UCARO for checking the applicant's number and processing a part of admission procedure for the accepted applicants.

**Step 3: Input your account information ( Exemption category only).**

The applicant who applies for the category for which the entrance examination fee is exempted must contact the respective Support Offices indicated in the section "II Programs and Number of Students to be Admitted". Once you have been notified by the concerned Support Office the alphanumeric characters

with eight or more digits, please input them.

**Step 4: Input the information regarding the application in the Internet Application System.**

Follow the instruction shown on the screen to input your name, address, etc.

The applicant can choose the prospective academic advisors of the respective programs from "List of Academic Supervisors" and input their names from the 1st choice (Required) to 2nd and 3rd choice (Optional) in the column of "Academic Advisor." Please note that the applicant for Applied Chemistry Program and Smart Innovation Program (Applied Chemistry) is requested to input the names of "Research Fields" of the prospective academic advisors from the 1st choice to the 3rd choice (All Required), not their personal names.

**Step 5: Upload your photograph.**

Follow the instruction shown on the screen to upload the digital data of your photograph (File format: JPEG).

**Step 6: Pay the entrance examination fee of 30,000 yen.**

Select either of the following payment method on the "Input Payment Information" screen:

1. Credit card: VISA, MasterCard, JCB, AMERICAN EXPRESS, Diners Club
2. ATM of a financial institution [Pay-easy]
3. Net banking

(Caution)

- The applicant has to pay the charge for use of the Internet Application System (1,000 yen per application) in addition to the entrance examination fee.
- MEXT Scholarship recipients are exempted from the entrance examination fee.
- The entrance examination fee once paid will not be returned for any reason after the application is accepted.

In either (1) or (2) of the following cases, the entrance examination fee once paid will be returned after deducting the transfer fee. We will mail the form of the "Refund Claim" for refund of the examination fee. Fill in the required information such as the "application number," "name in kana letters," "name," "phone number," "address," "payee account information," and "reason of refund claim," imprint your seal on the form, and mail the form to the respective Support Office indicated in the section "II Programs and Number of Students to be Admitted" before Friday, February 24, 2023.

The charge for use of the Internet Application System will not be repaid for any case.

- (1) The applicant does not submit the application documents or the application documents are not received.
- (2) The payment of the entrance examination fee is duplicated.

**Step 7: Complete the registration of the application information.**

Write down the application number of six digits that is shown on the screen.

**Step 8: Mail the application documents.**

For the submission address, refer to the section "II Programs and Number of Students to be Admitted".

Indicate the phrase "Application documents for ○○○ Program of Graduate School of Advanced Science and Engineering are enclosed." in red on the front surface of the envelope.

## V Application Documents

Note that the application documents vary for each Program.

It is required to attach the English or Japanese translation to the application documents written in other language.

### Science Programs

(Mathematics/Physics/Earth and Planetary Systems Science/Basic Chemistry)

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (3 and 4) from the website of the Graduate School.

No	Document Name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
2	Certificate of graduation or certificate of expected graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1"> <thead> <tr> <th>Graduate</th> <th>Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>• 教育部学历证书电子注册备案表*</li> <li>• 毕业证书</li> <li>• 学士（硕士）学位证书</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>• 教育部学籍在线验证报告*</li> <li>• 毕业预定证书</li> </ul> </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, June 3, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询).  <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a></p>	Graduate	Prospective Graduate	<ul style="list-style-type: none"> <li>• 教育部学历证书电子注册备案表*</li> <li>• 毕业证书</li> <li>• 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>• 教育部学籍在线验证报告*</li> <li>• 毕业预定证书</li> </ul>
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3	Research Plan	Use the specified form to prepare.				
4	Letter of Recommendation (2 copies)	<p>Use the specified form to prepare and submit both letters of ① and ② below.</p> <p>① Letter signed by the head of an organization to which the applicant belongs.</p> <p>② Letter signed by the applicant’s academic supervisor.</p>				
5	Score certificate of English-language proficiency	<p>Submit the original score certificate of either of the following examinations which was held in the period from May 2019 to the time of application. (The submitted score certificate will be returned after the application procedures)</p> <ul style="list-style-type: none"> <li>• TOEIC® Public Test</li> <li>• TOEIC®-IP</li> <li>• TOEFL®-PBT (ITP)</li> <li>• TOEFL®-iBT</li> <li>• IELTS Academic</li> <li>• Cambridge English Qualifications</li> <li>• CET</li> </ul>				

6	Certificate of The Graduate Record Examination (GRE®) (optional)	The applicant for Physics Program or Earth and Planetary Systems Science Program who has taken GRE® can submit the certificate as an additional material for admission selection.	
		Program	Subject Test
		Physics Program	• Physics
		Earth and Planetary Systems Science	Submit the certificate of either of the following subject tests. • Physics • Mathematics • Chemistry • Biology

(Caution) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 3 above.

**Engineering Programs & Informatics and Data Science Program**

(Applied Chemistry / Chemical Engineering / Electrical, Systems, and Control Engineering / Mechanical Engineering / Transportation and Environmental Systems / Architecture / Civil and Environmental Engineering / Informatics and Data Science / Smart Innovation)

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (3, 4, 6, 7 and 8) from the website of the Graduate School.

No	Document name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
2	Certificate of graduation or certificate of expected graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Graduate</th> <th style="width: 50%;">Prospective Graduate</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul> </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, June 3, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询).  <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a></p>	Graduate	Prospective Graduate	<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>
Graduate	Prospective Graduate					
<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>					
3	Research plan	Use the specified form to prepare.				
4	Letter of Recommendation (2 copies)	<p>Use the specified form to prepare and submit both letters of ① and ② below.</p> <p>① Letter signed by the head of an organization to which the applicant belongs.</p> <p>② Letter signed by the applicant’s academic supervisor.</p>				
5	Score Certificate of English-language proficiency	<p>Submit either ① or ② of the following certificates.</p> <p>① The original score certificate of English-language proficiency and its copy in A4 size.</p> <p>Submit the original score certificate of either of the following examinations which was held in the period from May 2019 to the time of application. (The submitted certificate will be returned after the application procedures)</p> <ul style="list-style-type: none"> <li>· TOEIC® Public Test</li> <li>· TOEIC®-IP</li> <li>· TOEFL®-PBT (ITP)</li> <li>· TOEFL®-iBT</li> <li>· IELTS Academic</li> <li>· Cambridge English Qualifications</li> </ul> <p>* Check “2.Application Requirements” in the section “III Application Eligibility”.</p> <p>② Certificate indicating that the applicant has received a higher education in English</p> <p>Issued by the president of the university or the dean of the faculty from which the applicant has graduated.</p>				
6	Personal History	Use the specified form to prepare.				

7	List for the Oral Examination	Use the specified form to prepare.
8	Consent Form	Use the specified form to prepare. Consult with the faculty who is expected to be your academic supervisor to obtain an approval for your application for the Master's Course.
9	Certificate of GRE® (optional)	The applicant who has taken GRE® can submit the certificate. The GRE institution code of Hiroshima University is 2358.

(Caution) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 3 above.



## Quantum Matter Program

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (3 and 4) from the website of the Graduate School.

No	Document name	Note				
1	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
2	Certificate of graduation or certificate of expected graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending.</p> <p>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Graduate</th> <th style="text-align: center;">Prospective graduate</th> </tr> </thead> <tbody> <tr> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul> </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul> </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, June 3, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a></p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>
Graduate	Prospective graduate					
<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>					
3	Research Plan	Use the specified form to prepare.				
4	Letter of Recommendation	Use the specified form to prepare. Signed by the applicant’s academic supervisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.				
5	Certificate of English language ability	<p>Submit either ① or ② of the following certificates.</p> <p>① The original score certificate of English-language proficiency Submit the original score certificate of either of the following examinations which was held in the period from May 2019 to the time of application. (The submitted certificate will be returned after the application procedures)</p> <ul style="list-style-type: none"> <li>· TOEIC® Public Test</li> <li>· TOEIC®-IP</li> <li>· TOEFL®-PBT (ITP)</li> <li>· TOEFL®-iBT</li> <li>· IELTS Academic</li> <li>· Cambridge English Qualifications</li> </ul> <p>* Check “2.Application Requirements” listed in the section “III Application Eligibility”.</p> <p>② Certificate indicating that the applicant has received a higher education in English Issued by the president of the university or the dean of the faculty from which the applicant has graduated.</p>				
6	Certificate of GRE® (optional)	The applicant who has taken GRE® can submit the certificate. The GRE institution code of Hiroshima University is 2358.				

(Caution) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 3 above.

**Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)**

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “II Programs and Number of Students to be Admitted”. Download the specified forms (1, 4 and 5) from the website of the Graduate School.

No	Document name	Note				
1	Personal History	Use the specified form to prepare.				
2	Academic transcripts	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
3	Certificate of graduation or certificate of expected graduation	<p>Issued by the president of the university or the dean of the faculty the applicant attended or is attending. The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</p> <table border="1"> <thead> <tr> <th>Graduate</th> <th>Prospective graduate</th> </tr> </thead> <tbody> <tr> <td> <ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul> </td> <td> <ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul> </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, June 3, 2022 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). <a href="http://www.chsi.com.cn/xlcx/bgys.jsp">http://www.chsi.com.cn/xlcx/bgys.jsp</a></p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>
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<ul style="list-style-type: none"> <li>· 教育部学历证书电子注册备案表*</li> <li>· 毕业证书</li> <li>· 学士（硕士）学位证书</li> </ul>	<ul style="list-style-type: none"> <li>· 教育部学籍在线验证报告*</li> <li>· 毕业预定证书</li> </ul>					
4	Research Plan	Use the specified form to prepare.				
5	Letter of Recommendation (2 copies)	<p>Use the specified form to prepare and submit both letters of ① and ② below.</p> <p>① Letter signed by the head of an organization to which the applicant belongs.</p> <p>② Letter signed by the applicant’s academic supervisor.</p>				
6	Score certificate of a language proficiency (optional)	<p>The applicant who has taken either ① or ② of the following examinations can submit a copy of the score certificate.</p> <p>① English-language proficiency examinations</p> <ul style="list-style-type: none"> <li>· TOEIC®-Public Test</li> <li>· TOEIC®-IP</li> <li>· TOEFL®-PBT (ITP)</li> <li>· TOEFL®-iBT</li> <li>· IELTS Academic</li> <li>· Cambridge English Qualifications</li> </ul> <p>② JLPT (Japanese-Language Proficiency Test)</p>				
7	Certificate of GRE® (optional)	The applicant who has taken GRE® can submit the certificate. The GRE institution code of Hiroshima University is 2358.				

(Caution) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 3 above.

## VI Selection Process

### 1. Schedule of the Entrance Examination

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Monday, May 9, 2022 - Friday, May 20, 2022	A day specified by the head of the Program between Friday, May 27, 2022 and Wednesday, June 8, 2022	Oral examination via internet	Planned to be Monday, June 20, 2022.

(Caution)

- (1) Dates and time listed above are represented in Japan Standard Time (JST).
- (2) The date of the entrance examination will be notified by the head of the respective Programs.

### 2. Examination Subjects

Your academic abilities regarding knowledge in the specialized field, application capability, and problem-solving abilities will be evaluated by the oral examination via internet using Skype or the other method.

Details of the oral examination will be notified on the day of the entrance examination.

### 3. Selection Method

#### (1) Basic Policy

The results of the oral examination & the screening of the application documents will be comprehensively evaluated.

#### (2) Evaluation Criteria

【Oral examination】 Scale of 1 to 3 (A, B, C)

【Application documents】 Scale of 1 to 3 (A, B, C)

### 4. Result Announcement

The results will be notified to the accepted applicants via e-mail.

We will also send the Notice of acceptance and the admission guide to the accepted applicants.

(We do not answer any inquiry via phone.)

## VII Miscellaneous

### 1. Instruction for Application

- (1) Consult with the faculty who is expected to be your academic supervisor about your research theme before applying.

For the information regarding faculty of the Graduate School, refer to following website.

URL: <https://www.hiroshima-u.ac.jp/en/adse/research>



The consultation is held as part of information provision from the Graduate School and does not affect the result of the selection in any way.

- (2) If there is any deficiency in the application documents, they may not be accepted. After the application documents are accepted, they shall not be returned and amending the information described in them is not allowed for any reason.
- (3) The certificates must be the original or a copy with the original certification. Any copy without the original certification will not be accepted as the valid certificate.
- (4) The score certificate of a language proficiency will be used for the following purposes:
- ① Entrance examination
  - ② Statistics and analysis of a language proficiency of applicants
- (5) The admission approval shall be withdrawn when it is found that the submitted documents contain any false indication.
- (6) The admission approval shall be withdrawn when the applicant who was expected to meet any of the application eligibilities at the time of application has failed to meet the concerned criteria by the enrollment date.

### 2. Consultation with the Applicant who Needs Special Consideration for the Entrance Examination and/or Education in the Graduate School

The applicant who needs special consideration for the entrance examination and/or education in the Graduate School is requested to submit the application form (in free format) which contains the following information to the respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" to arrange a consultation.

A. Period for the consultation: Monday, April 11 - Friday, April 22, 2022

B. Information to be described in the application form

- ① Name & address of the applicant (the applicant's phone number must be included)
- ② Name of the university from which the applicant has graduated, Program for which the applicant will apply, and the name of the faculty who is expected to be the applicant's academic supervisor
- ③ Type and severity of the disability (submit a medical certificate issued by a doctor if the applicant is in treatment)
- ④ Measures to be taken for the examination
- ⑤ Measures to be taken for the education in the Graduate School
- ⑥ Specific measures that were taken in the university from which the applicant has graduated
- ⑦ Conditions of the daily life

### 3. Handling of Personal Information

The personal information obtained via the admission selection process (name, birth date, gender, and the other personal information) is used for the selection of entrants, notification to the successful applicants, and the admission procedure. After the enrollment, Hiroshima University will manage the information for the purposes of student support (e.g. application for scholarship and tuition exemption) and investigation & research activities (e.g. improvement of the entrance examination system, investigation and analysis on the trend of application). We neither use the information for the other purposes nor provide it to the person other than our concerned faculty and staffs.

#### 4. Admission Procedure

(1) Documents for admission procedure

The documents will be sent after the selection result is announced.

UCARO system is used as a part of the admission procedures.

(2) Fee

A: Enrollment fee: 282,000 yen

B: Tuition (per year): 535,800 yen

① The enrollment fee once paid will not be returned for any reason.

② The amounts listed above are as of March 2022. When the amount is revised at the time of admission or while the student is enrolled in the university, it is required to pay the revised amount.

#### 5. Application for Disclosure of Examination Results

(1) The information regarding the result of the entrance examination listed in the table below can be disclosed only to the applicant (hereinafter referred to as the “applicant for disclosure”).

Item	Disclosed information
Examination score	Evaluation results of oral examination and application documents (scale assessment)

(2) The examination result (personal information) will be disclosed on the respective Support Offices or sent via mail.

(3) The applicant for disclosure is required to download the form of "Application for Entrance Examination Result Disclosure" from the website of the Graduate School, fill in the required information, and directly submit or mail it to the respective Support Offices.

It is also required to submit the admission ticket for identification.

(4) The “Application for Entrance Examination Result Disclosure” will be accepted during the period from October 1, 2022 to November 30, 2022.

(5) The result of the application shall be notified within 30 days after the “Application for Entrance Examination Result Disclosure” is accepted.

#### 6. Others

(1) Smoking has been prohibited entirely in all HU campuses from January, 2020.

(2) Hiroshima University has established the university’s Rules on Security Export Control in accordance with the Foreign Exchange and Foreign Trade Act, and conducts strict examinations for acceptance of international students, etc. Please note in advance that international students may be unable to receive their desired education or conduct their desired research due to the restriction by the above regulations.