

October 2021 Admission

**Graduate School of Advanced Science and Engineering**

**(Doctoral Course)**

**Division of Advanced Science and Engineering**

**Special Selection for  
International Students  
[For Students Living in 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**

May 2021



**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 (Doctoral 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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role 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 sophisticated 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 as a member of society and ethics required for researchers and highly-professional engineers.

## 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 take a role as a leading researcher in specialized and/or cross-disciplinary research of mathematics;
- ② The will to take the leading role in professional occupations such as researchers, educators, and highly-professional 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 wide range of academic knowledge and study skills for the academic areas related to mathematics as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers.

### [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 work in the frontier field in areas of physics based on the point of view of researchers in the internationally top level;
- ② The will to take the leading role in professional occupations such as researchers, educators, and highly-professional engineers in areas related to physics based on the basic knowledge of cutting edge physics;
- ③ A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to physics as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

### [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 to take the leading role in advanced and prominent research activities;
- ② The will to take the leading role in professional occupations such as researchers educators, and highly-professional engineers in earth and planetary science 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, 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 as a member of society and ethics required for researchers and highly-professional engineers.

**[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 An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional 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 wide range of academic knowledge and study skills for the academic areas related to basic chemistry as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

**[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional 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 wide range of academic knowledge and study skills for the academic areas related to applied chemistry as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

**[Chemical Engineering Program]**

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

- ① An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional engineers in chemical 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 wide range of academic knowledge and study skills for the academic areas related to the chemical engineering as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

**[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

**[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

### **[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

### **[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional 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 wide range of academic knowledge and study skills for the academic areas related to architecture as well as a wide range of intelligence; and
- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

### **[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

### **[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 taking the leading role in advanced and prominent academic and inter-disciplinary research;
- ② The will to take the leading role in professional occupations such as researchers and highly-professional engineers in 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

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

① The Smart Innovation Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it: An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

- ② The will to take the leading role in professional occupations such as researchers and highly- professional 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 multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to the smart material development, the smart measurement and control, and their fusion technologies of

them as well as wide range of intelligence; and

- ④ Common sense as a member of society and ethics required for researchers and highly-professional engineers.

**[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 acquire sophisticated research ability and expertise to obtain the doctor degree and being engaged in advanced 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 unveiling new findings in physics and applying them in an engineering field and/or development of a integrated system 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 wide range of academic 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 as a member of society and ethics required for researchers and highly-professional engineers.

## II Programs and Number of Students to be Admitted

The Division of Advanced Science and Engineering of Graduate School of Advanced Science and Engineering in Hiroshima University will accept applicants in Special Selection for International Students [For Students Living in Japan] to the Doctoral Courses for October 2021 admission as indicated below.

【October 2021 admission】

Division	Program	Capacity	Admission capacity	Contact Submission address for application documents
Division of Advanced Science and Engineering	Mathematics Program	128	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			Support Office for the fields of Science (AdSM) 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009
	Informatics and Data Science Program			
	Smart Innovation Program (Applied Chemistry)			
	Smart Innovation Program (Electrical, Systems, and Control Engineering)			
Quantum Matter Program				

(Caution)

- The selection for October 2021 admission will be suspended for Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) and Transdisciplinary Science and Engineering Program (Development Sciences)
- Consult with the faculty who is expected to be your academic advisor about your research theme before applying.  
For the information regarding 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>



### III Outline of Entrance Examination

#### 1. Schedule of the Entrance Examination

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Friday, July 16, 2021 - Monday, July 26, 2021	A day between Monday, August 2, 2021 and Friday, August 27, 2021, specified by the head of the Program.	Oral examination	Friday, September 3, 2021, 12:00 (tentative schedule)

(Caution)

Specific schedule of the entrance examination will be notified by the head of each Program.

#### 2. Application Eligibility

Refer to the section "IV Application Eligibility" (pages 9~10).

#### 3. Application Documents and Selection Process

Refer to the respective pages listed in the section "V Application Documents and Selection Process" (page 11) to see the application documents and selection process (examination subject, basic policy, and evaluation criteria) for each Program.

#### 4. Application Procedure

(1) Your application will be accepted via internet during the application period.

Refer to the procedures described in the section "VI Application Procedure" (page 18~19).

(2) Deliver in person or mail your application documents specified by each Program to respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (pages 7) during the application period.

In the case of submission via delivery in person, the documents will be accepted in respective Support Office from 8:30 to 17:00 during the application period.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no later than 17:00, Monday, July 26. The documents received after this time shall be accepted only when they are postmarked no later than Friday, July 23.

#### 5. Result Announcement

The acceptance certificate and the admission guide will be sent to the successful applicants by mail.

An announcement will also be made on the website of the Graduate School (<https://www.hiroshima-u.ac.jp/adse>). Please note, however, that the announcement on the website is made as part of information provision and does not grant admission officially in any way. Only mailing of the acceptance certificate should be regarded as an official announcement of admission. Please also note that we will not announce the results through posting on the bulletin board on campus.

(We do not answer any inquiry via phone.)



## IV Application Eligibility

### 1. Application Eligibility

The applicant is required to be a person who do not have Japanese nationality, resides in Japan, and meets or is expected to meet either of the following qualifications before the date of admission;

- (1) A person who has a master's degree or a professional degree
- (2) A person earned a degree equivalent to a master's degree or a professional degree in a foreign country
- (3) A person who studied the class subjects provided by a foreign school as a correspondence course in Japan and earned a degree equivalent to a master's degree or a professional degree
- (4) A person who completed an education course in Japan provided by a foreign education institute which is established as a graduate course 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), and earned a degree equivalent to a master's degree or a professional degree.
- (5) A person who completed an education course of the United Nations University and earned a degree equivalent to a master's degree
- (6) A person who completed an education course of a foreign school, an education institute defined in the item (4) above, or the United Nations University, passed the examination and qualification defined in the item 2 of Article 16 of the Graduate School Establishment Standards, and has been approved as having academic abilities equivalent or superior to those of master's degree holders
- (7) A person who has been specified by MEXT (Notification of the Ministry of Education, Culture, Sports, Science and Technology, No. 118 of September 1, 1989);
  - (a) has been engaged in research activities in a university or a research institute for two years or more after graduating from a university, and has been approved by the Graduate School as having academic abilities equivalent or superior to those of master's degree holders according to the results of the concerned research activities or
  - (b) has been engaged in research activities in a university or a research institute for two years or more after completing a 16-year school education course in a foreign country or studying the class subjects provided by a foreign school as a correspondence course in Japan to complete the 16-year school education course in the concerned foreign country, and has been approved by the Graduate School as having academic abilities equivalent or superior to those of master's degree holders according to the results of the concerned research activities
- (8) A person who has been approved by the Graduate School as having academic abilities equivalent or superior to those of master's degree holders according to the result of the examination that was separately conducted, and is 24 years or older.

(Caution 1) The Applicant who is expected to meet either of the criteria (1) to (6) above must obtain the concerned application eligibility by September 30, 2021.

(Caution 2) The applicant who falls under either of the criteria (7) or (8) above is subject to a preliminary evaluation of the application eligibility (refer to "2. Preliminary Evaluation").

### 2. Preliminary Evaluation

#### (1) Preliminary Examination

The applicant who falls under either of the application eligibility (7) or (8) above must follow the procedures below and pass a preliminary evaluation of the application eligibility.

##### a) Application Period

Monday, June 28, 2021 - Friday, July 2, 2021 no later than 17:00

(The application documents must be submitted in a registered mail with indication of the phrase "Application Form for Preliminary Evaluation is enclosed" in red on the front surface of the envelope)

##### b) Application Documents

Download the specified forms (a, b, e, f, g and h) 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 Application Eligibility Evaluation	Use the specified form to prepare.
c	Academic transcript	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.

d	Certificate of 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 also 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>		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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<p>* Obtain the document for which the Web authentication will be valid as of Monday, July 19, 2021 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>							
e	Research Achievements	Use the specified form to prepare.					
f	List of Research Achievements	Use the specified form to prepare.					
g	Reasons for Application	Use the specified form to prepare.					
h	Research Plan	Use the specified form to prepare.					
i	Return envelope	Use a standard envelope (12cm×23.5cm in size) and fill out your address and name; affix a 374-yen stamp to the front.					

(Caution 1)

Aattach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The results of the preliminary evaluation will be notified to the applicants by Tuesday, July 13, 2021.

(Caution 3) The applicant who has successfully passed a preliminary evaluation must submit the application documents (except the ones which have been already submitted in a preliminary evaluation) specified for each program. Refer to the page listed in the section "V Application Documents and Selection Process" (page 11).

## V Application Documents and Selection Process

Note that application documents and selection process vary for each program.

For the details, refer to the respective pages listed in the table below.

Program	Category	Page(s) to be referred
Mathematics Program	Science Programs	Pages 12 to 13
Physics Program		
Earth and Planetary Systems Science Program		
Basic Chemistry Program		
Applied Chemistry Program	Engineering Programs & Informatics and Data Science Program	Pages 14 to 15
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 (Applied Chemistry)		
Smart Innovation Program (Electrical, Systems, and Control Engineering)		
Quantum Matter Program		Pages 16 to 17

## Science Programs

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

### 1. Application Documents

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” (page 7). Download the specified forms (4) from the website of the Graduate School.

No	Document name	Note				
1	Academic transcripts of the undergraduate school	Issued by the president of the university (the dean of the faculty) from which the applicant graduated.				
2	Academic transcripts of the graduate school	Issued by the president of the university (the dean of the graduate school) from which the applicant graduated.				
3	Graduation certificate or certificate of expected graduation	<p>Issued by the president of the university or the dean of the graduate school which you have graduated.</p> <p>The applicant who has graduated or is expected to graduate from the Graduate School of Science of Hiroshima University (Master Course) need not submit this document.</p> <p>The applicant who has graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to obtain and submit the following document:</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 Tuesday, August 10, 2021 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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4	Master's Thesis or Summary of Master's Thesis	<p>Copy of Master's thesis</p> <p>Applicants scheduled to complete the master's program: a summary of their master's thesis (in free format printed on about two A4-size sheets)</p>				
5	Return envelope	Use a standard envelope (12cm × 23.5cm in size) and fill out your address and name; affix a 94-yen stamp to the front (for sending the Examination Card).				

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 1, 2 and 3 above.

### 2. Selection Process

#### (1) Basic Policy

Academic abilities (based on the oral examination (including the final defense of Master's thesis)) and the academic transcript will be comprehensively evaluated.

#### ○Mathematics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the master's course and whether applicant can engage in academic activities in accordance with the Curriculum Policy of the course, an oral examination is given to the applicant. Admission to the course is determined by comprehensively evaluating the result of the oral examination, master's thesis, and the academic transcript of the applicant. Oral examination is to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

○Physics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the master's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, an academic aptitude examination (oral examination: master's thesis presentation) is given to the applicant. Whether the applicant has the qualities necessary for the Doctoral course is determined based on the academic transcript of the applicant.

○Earth and Planetary Systems Science Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the master's course and whether an applicant can engage in academic activities in accordance with the Curriculum Policy of the course, an oral examination (master's thesis presentation) is given to the applicant. The result of the oral examination is evaluated by a grade-based score. Admission to the course is determined by comprehensively evaluating the result of the examination and the academic transcript of the applicant.

○Basic Chemistry Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the master's course and whether applicant can engage in academic activities in accordance with the Curriculum Policy of the course, an oral examination is given to the applicant. Admission to the course is determined by comprehensively evaluating the result of the oral examination (master's thesis presentation) and the academic transcript of the applicant.

(2) Evaluation criteria

As for the evaluation criteria for the oral examination and document examination, four-level evaluation (A, B, C, D) is performed.

(3) Date and Time of the oral examination

Oral examination will be held during the period described in "1. Schedule of the Entrance Examination" in the section "III. Outline of Entrance Examination" (page 8). Specific schedule of the oral examination will be notified by the head of the program to which you will apply.

# 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))

## 1. Application Documents

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” (page 7). Download the specified forms (4, 5, 6, 7, 8 and 9) from the website of the Graduate School.

No	Document Name	Note				
1	Academic transcripts of the undergraduate studies	Issued by the president of the university or the dean of the faculty the applicant attended or is attending.				
2	Academic transcripts of the graduate studies	Issued by the president of the university or the dean of the graduate school 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 graduate school the applicant attended or is attending</p> <p>The applicant who falls under any of the application eligibility (2) to (6) is required to submit documents proving the concerned application eligibility.</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 obtain and submit the following document:</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 Tuesday, August 10, 2021 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>					
4	Letter of Recommendation	Use the specified form to prepare. Signed by the academic advisor or the head of the institution to which the applicant belongs.				
5	Research Plan	Use the specified form to prepare.				
6	Summary of Master's Thesis	Use the specified form to prepare. The applicant who completed the master's course must submit an abstract of their master's thesis. The applicant who has not yet completed the master's course must present the intermediate report of their master's thesis.				
7	Research Achievements	Use the specified form to prepare.				
8	List of Research Achievements	Use the specified form to prepare.				
9	Reference for Educational Background	Only for the applicant who graduated from a foreign university. Use the specified form to prepare.				
10	Copy of residence card	Only for foreign applicants residing in Japan. If your address is written on the back side of the card, make a two-sided copy.				
11	Return envelope	Use a standard envelope (12cm×23.5cm in size) and fill out your address and name; affix a 94-yen stamp to the front (for sending the Examination Card).				

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 3, 7, 8 and 9 above.

## **2. Selection Process**

### **(1) Basic policy**

The results of the oral examination (English, specialized subject, Master's Thesis and research achievements) and the submitted documents will be comprehensively evaluated.

### **(2) Evaluation criteria**

As for the evaluation criteria for the oral examination and document examination, four-level evaluation (A, B, C, D) is performed.

### **(3) Date and Time of the oral examination**

Oral examination will be held during the period described in "1. Schedule of the Entrance Examination" in the section "III. Outline of Entrance Examination" (page 8). Specific schedule of the oral examination will be notified by the head of the Program.

# Quantum Matter Program

## 1. Application Documents

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” (page 7). Download the specified forms (6, 7, 8 and 9) from the website of the Graduate School.

No	Document Name	Note				
1	Academic transcripts of the undergraduate studies	Issued by the president of the university (the dean of the faculty) the applicant attended or is attending.				
2	Academic transcripts of the graduate studies	Issued by the president of the university (the dean of the graduate school) the applicant attended or is attending.				
3	Certificate of graduation or certificate of expected graduation	<p>Issued by the president of the university (the dean of the graduate school) the applicant attended or is attending If you are a graduate, make sure that the certificate includes information about your degree. 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 obtain and submit the following document:</p> <table border="1" style="width: 100%;"> <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 Tuesday, August 10, 2021 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>					
4	Photocopy of the master's thesis	The applicant who fall under (1) of the application eligibility.				
5	Intermediate report for the research results obtained after graduating from the university	Select a format arbitrarily to prepare the document. The applicant who fall under either the application eligibility (2) or (3)				
6	Research Plan	Use the specified form to prepare. (600 words or longer)				
7	Research Achievements	Use the specified form to prepare.				
8	List of Research Achievements	Use the specified form to prepare.				
9	Letter of-Recommendation	Use the specified form to prepare. Signed by the applicant's academic advisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.				
10	Score certificate of an English language ability examination	Score certificate of a language ability examination such as TOEFL® and TOEIC®				
11	Certificate of the Graduate Record Examinations (GRE) (voluntarily submitted)	Submit the certificate of GRE, if any.				
12	A copy of residence card	If the applicant's address is written on the back side of the card, please make a both sided copy.				
13	Return Envelope	Use standard envelope (12cm×23.5cm in size) and fill out your address and name; affix a 94-yen stamp to the front (for sending the Examination Card)				

(Caution 1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.

(Caution 2) The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 1, 2, 3, 7 and 8 above.



## **2. Selection Process**

### **(1) Basic policy**

The results of the oral examination and the submitted documents will be evaluated totally to determine successful applicants.

### **(2) Evaluation criteria**

As for the evaluation criteria for the oral examination and document examination, three-level evaluation (A, B, C) is performed.

### **(3) Date and Time of the oral examination**

Oral examination will be held during the period described in "1. Schedule of the Entrance Examination" in "III. Outline of Entrance Examination" (page 8). Specific schedule of the oral examination will be notified by the head of the Program.

### **(4) Oral Examination**

The oral examination will be given for areas listed below:

- ① Reason for application
- ② Research area and research plan for the Doctoral Course
- ③ Master's thesis
- ④ Basic knowledge in the area in which the applicant wants to conduct the research activities

# VI 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 Deliver in person or 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.

**Friday, July 16, 2021 - Monday, July 26, 2021 no later than 17:00**

In the case of submission of the application documents via mail, the documents must be sent in a registered mail and reach us no later than 17:00, Monday, July 26. The documents received after this time shall be accepted only when they are postmarked no later than Friday, July 23.

## 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: +81-50-3786-5524

(For International calls and calls on IP telephony:03-5952-2114)

○ 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" (page 7).

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

\* Please note that it is required to include the area code to dial if you call from the following areas, even when you call from an area of the same area code as that of the inquiry contact.

(Areas in Hiroshima City, Fuchu Town, Kaita Town, and Saka Town)

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 of 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 (applicable to the admission examination category for which it is required).**

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" (page 7). 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 from "List of Academic Supervisors" and input the name of their prospective academic advisor in the respective Programs from their 1st choice (Required) to 2nd and 3rd choice (Optional) in the column of "Academic Advisor." Please note that the applicant for Applied Chemistry Program is requested to input the name of "Research Fields" of their prospective academic advisor, not the name of their prospective academic advisor.

**Step 5: Upload your photograph.**

Follow the instruction shown on the screen to upload the digital data of your photograph (File format: JPEG). It is not allowed to submit the photograph via mail.

**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 (650 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" (Page 7) before Monday, February 28, 2022.

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" (page 7).

In the case of submission via delivery in person, the documents will be accepted in respective Support Offices from 8:30 to 17:00 during the application period.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no later than 17:00; Monday, July 26. The documents received after this time shall be accepted only when they are postmarked no later than Friday, July 23.

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.

## VII Miscellaneous

### 1. Instruction for Application

- (1) Consult with the faculty who is expected to be your academic advisor about your research theme before applying. For the information regarding the 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 photocopy with the original certification. Any photocopy 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 for the consultation (in free format) to the respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (page 7). The application form must contain the following information.

A. Period for the consultation: Monday, June 28 - Friday, July 2, 2021

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 April 2021. 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 the oral examination and the 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, 2021 to November 30, 2021 for October 2021 admission.

(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.

## Special Measure of Exemption from the Entrance Examination Fee for the Applicant

Hiroshima University has decided to implement a special measure of exemption from the entrance examination fee for the entrance examinations in the 2021 academic year, to alleviate the economic burden on and to secure educational opportunities for the applicants affected by the disasters.

The applicant who wishes to be exempted from the entrance examination fee must contact in advance the respective Support Offices listed in the section “II Programs and Number of Students to be Admitted” (page 7).

### 1 Examinations to which the Special Measure is Applied

The entrance examinations held in the 2021 academic year (including selections of re-admission, transfers, and mid-course entry admission).

### 2 Special Measure

Exemption from the entrance examination fees

\*Fees for the entrance examination result disclosure will be covered as well.

### 3 Disasters to which the Special Measure is Applied

- (1) The Heavy Rain Event of July 2018
- (2) Any disasters covered by the Disaster Relief Act after August 28, 2019

### 4 The Applicant Eligible for Exemption

The applicant who was affected by the disaster specified in the “3 Disasters to which the Special Measure is Applied” in the areas covered by the Disaster Relief Act, and who falls under either of the following conditions.

- (1) The house in which the family’s chief provider bearing the applicant’s school expenses resides was completely destroyed, largely destroyed, or half-destroyed.
- (2) The family’s chief provider bearing the applicant’s school expenses died or was listed as missing in the disaster  
(Caution) For the details of the areas covered by the Disaster Relief Act, refer to the following website.  
[http://www.bousai.go.jp/taisaku/kyuujo/kyuujo\\_tekiyou.html](http://www.bousai.go.jp/taisaku/kyuujo/kyuujo_tekiyou.html)

### 5 Application

The applicant must contact in advance the respective Support Offices listed in the section “II Programs and Number of Students to be Admitted” (page 7), and subsequently submit the specified application documents for exemption along with other required documents for admission.

In this case, do not pay the entrance examination fee at the time of application.

### 6 Application Documents

- (1) Application form for exemption from the entrance examination fee (Download the form from the following website)  
<https://www.hiroshima-u.ac.jp/en/nyugaku>
- (2) Disaster victim certificate (a copy is acceptable) (For the applicant who falls under the condition of the item (1) of the "4 The Applicant Eligible for Exemption" above)
- (3) Document that proves the death or missing status of the family’s chief provider (a copy is acceptable) (For the applicant who falls under the condition of the item (2) of the "4 The Applicant Eligible for Exemption" above)

### 7 Application Process (Internet Application)

Refer to the PDF file available from the following website.

[https://www.hiroshima-u.ac.jp/system/files/131856/Online application procedures for-Application Fees Exemption.pdf](https://www.hiroshima-u.ac.jp/system/files/131856/Online%20application%20procedures%20for%20Application%20Fees%20Exemption.pdf)

### 8 Contact

Refer to the respective Support Offices listed in the section “II Programs and Number of Students to be Admitted” (page 7).