

April 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 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)**

September 2020



HIROSHIMA UNIVERSITY

Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Doctoral Course) Admission Policy

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.

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I 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 who are residing outside Japan for admission to the Doctoral Course as indicated below for April 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			
	Informatics and Data Science Program			Support Office for the fields of Science 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009
	Smart Innovation			
	Quantum Matter Program			Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-6318
	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 advisor about your research theme before applying. For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the following web site.

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 detail, please refer to the following web site.

URL: https://www.hiroshima-u.ac.jp/en/adse/admission/d_admission

II Outline of Entrance Examination

1. Schedule of the Entrance Examination

Application period	Date of the entrance examination	Examination subject	Examination result announcement
Monday, November 9, 2020 - Friday, November 20, 2020	A day between Friday, November 27, 2020 and Wednesday, December 9, 2020, specified by the head of the Program.	Oral examination via internet	Planned to be Monday, December 21, 2020.

(Caution)

- (1) Dates 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 Program.

2. Application Eligibility

Refer to the page for each Program listed in the section "III Application Eligibility and Required Documents" (page 6).

3. Application Procedure

- (1) Your application will be accepted via internet during the application period.
Refer to the procedure described in the section "IV Application Procedure" (page 19).
- (2) Mail your application documents specified by the Program to the respective submission address listed in the section "I Programs and Number of Students to be Admitted" (page 4)

4. Examination Subject

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.

5. Selection Process

The result of oral examination and application documents will be comprehensively evaluated.

6. Result Announcement

The result will be notified to the accepted applicants via an e-mail.
We will also send the acceptance certificate and the admission guide to the accepted applicants.
(We do not answer any inquiry via phone.)

III Application Eligibility and Required Documents

Note that the application eligibility and required documents vary for each program.
For the detail, refer to the page listed in the table below.

Program	Category	Page(s) to be referred
Mathematics Program	Science Programs	Pages 7 to 9
Physics Program		
Earth and Planetary Systems Science Program		
Basic Chemistry Program		
Applied Chemistry Program	Engineering Programs & Informatics and Data Science Program	Pages 10 to 14
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		Pages 15 to 16
Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)		Pages 17 to 18

Science Programs

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

1. Admission Policy

[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.

2. Application Eligibility

A person who is of a non-Japanese nationality, lives outside Japan at the time of application for admission, and meets or is expected to meet either of the following items by the date of enrollment:

- (1) A person who has a master's degree or a professional degree;
- (2) A person who was conferred a degree equivalent to a master's degree or a professional degree in a foreign country;
- (3) A person who studied 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 passed through an education courses provided by a foreign education institution located in Japan which is established as a graduate course within the school education system in the concerned foreign country and is approved by the Ministry 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 passed through an education course of the United Nations University and earned a degree equivalent to a master's degree;
- (6) A person who passed through an education course of a national school, education institute defined in the item (4) above, or the United Nations University, got through the examination and qualification defined in the item 2 of Article 16 of the Graduate School Establishment Standards, and has been approved as a person who has academic abilities equivalent or superior to those of master's degree holders;
- (7) A person who has been designated by MEXT (The Ministry's Notification #118, issued on September 1, 1989), has been engaged in research activities in a university or research institute for two years or more after completing an undergraduate course, and has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree holders according to the results of those research activities;
- (8) A person who has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree or professional degree holders according to the result of the admission qualification examination separately conducted, and is 24 years or older at the time of the admission.

3. Prerequisites for Application

- (1) The applicant who falls under the category of the item (7) or (8) above must undergo the preliminary evaluation of the application eligibility. The concerned applicant must submit the following documents to Support Office for the fields of Science, during the period from Monday, October 19, 2020 to Friday, October 30, 2020.

Download the specified forms (a and b) from the web site of the Graduate School of Advanced Science and Engineering.

	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	Statement of motivation for entering the Graduate School and research plan for the Master's Program	Use A4-sized sheets; free format

- (2) The evaluation results will be notified to the applicants by e-mail or by post by Friday, November 6, 2020.
- (3) The applicants who have successfully gone through a preliminary evaluation need not submit "3. Research plan" listed in the "4. Application Documents" below.

4. Application Documents

After making the application via internet, submit all the documents listed below at once during the

application period to the submission address indicated in the section " I Programs and Number of Students to be Admitted " (page4). Download the specified forms (3 and 5) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document Name	Note				
1	Academic transcript	Issued by the president of the university (the dean of the faculty) from which the applicant has graduated.				
2	Certificate of graduation or certificate of expected graduation	<p>Master's Degree Certificate, Diploma, or Certificate of Expected Graduation issued by the university in which the applicant is/was enrolled. If unavailable, a letter of expected graduation from the current advisor.</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"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 </td> <td> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, December 4, 2020 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective Graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective Graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					
3	Research Plan	Use the specified form to prepare.				
4	Summary of Master's thesis or an interim report	A summary of Master's thesis or an interim report				
5	Letter of Recommendation (2 types)	<p>Use the specified form to prepare and submit the following two types of letters of recommendation.</p> <ol style="list-style-type: none"> 1. Letter signed by the head of an organization to which the applicant belongs. 2. Letter(s) signed by one or more persons who supervise the applicant's academic research. 				
6	Certificate of English language ability	A copy of the score certificate of a standard English proficiency test such as TOEFL®, TOEIC®, CET, IELTS® or Cambridge English Qualifications.				
7	Published articles	Only for those who have any published articles or preprints.				

(Caution)

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

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. Admission Policy

[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]

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 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.

2. Application Eligibility

A person who is of a non-Japanese nationality, lives outside Japan at the time of application for admission, and meets or is expected to meet either of the following items by the date of enrollment:

- (1) A person who has a master's degree or a professional degree;
- (2) A person who was conferred a degree equivalent to a master's degree or a professional degree in a foreign country;
- (3) A person who studied 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 passed through an education courses provided by a foreign education institution located in Japan which is established as a graduate course within the school education system in the concerned foreign country and is approved by the Ministry 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 passed through an education course of the United Nations University and earned a degree equivalent to a master's degree;
- (6) A person who passed through an education course of a national school, education institute defined in the item (4) above, or the United Nations University, got through the examination and qualification defined in the item 2 of Article 16 of the Graduate School Establishment Standards, and has been approved as a person who has academic abilities equivalent or superior to those of master's degree holders;
- (7) A person who has been designated by MEXT (The Ministry's Notification #118, issued on September 1, 1989), has been engaged in research activities in a university or research institute for two years or more after completing an undergraduate course, and has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree holders according to the results of those research activities;
- (8) A person who has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree or professional degree holders according to the result of the admission qualification examination separately conducted, and is 24 years or older at the time of the admission.

(Caution)

The applicant who falls under the category of the item (7) or (8) above must refer to the "3 Prerequisites for Application" below.

3. Prerequisites for Application

The criteria for the categories of the items (7) and (8) in the "2. Application Eligibility" are specified as follows:

- (1) A person who meets the following two conditions falls under the category of the item (7):
 - (a) Graduated from a university or passed through a 16-year school education course in a foreign country and then has been engaged in research activities in a university or research institute for two years or more; and
 - (b) Has research results such as a publications, academic papers, academic lectures, academic reports, or patents that are approved by the Graduate School of Advanced Science and Engineering as equivalent to a master's thesis.
- (2) A person who meets the following two conditions falls under the category of the item (8):
 - (a) Has an education record that is sufficient for earning a master's degree in the area of the science and engineering; and
 - (b) Has research results such as a publications, academic papers, academic lectures, academic reports, or patents that are approved by the Graduate School of Advanced Science and Engineering as equivalent to a master's thesis.
- (3) The applicant who falls under the category of the item (7) or (8) above is also required to submit the documents listed below to Support Office for the fields of Engineering during the period from Monday, October 19, 2020 to Friday, October 30, 2020 (the deadline is 5 pm). Download the specified forms (1, 2, 4 and 6) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document name	Note				
1	Application Form for Preliminary Evaluation	Use the specified form to prepare.				
2	Record of Application Eligibility Evaluation	Use the specified form to prepare.				
3	Certificate of graduation	Issued by the president of the university (the dean of the faculty) from which the applicant has graduated.				
4	List of Research Achievements	Use the specified form to prepare. List the research results related to publication, report, patent, utility model right, etc.				
5	Copy or abstract of a publication and/or other items related to the research achievements	Submit a copy or abstract for all items of the research results listed in the document NO. 4.				
6	Reference for Educational Background	<p>Use the specified form to prepare. 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" 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"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 </td> <td> <ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, November 13, 2020 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书
Graduate	Prospective graduate					
<ul style="list-style-type: none"> · 教育部学历证书电子注册备案表* · 毕业证书 · 学士(硕士)学位证书 	<ul style="list-style-type: none"> · 教育部学籍在线验证报告* · 毕业预定证书 					

- (4) The result of the examination will be notified to the applicant via an e-mail by Friday, May 8, 2020.

4. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the address indicated in the "Submission address for application documents" (page 4). Download the specified forms (4, 5, 6, 7 and 8) from the web site of the Graduate School of Advanced Science and Engineering.

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 has 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 has graduated.								
3	Certificate of graduation or certificate of expected graduation	Issued by the president of the university (the head of the graduate school) from which the applicant has graduated.								
4	Letter of Recommendation	Use the specified form to prepare. Signed by the last advisor or the head of the institution to which the applicant belongs.								
5	Summary of Master's thesis	Use the specified form to prepare. The applicant who has passed through the master's course must submit an abstract of the master's thesis. The applicant who has not passed through the master's course yet must submit the intermediate report of the master's thesis.								
6	List of Research Achievements	Use the specified form to prepare. List the research results related to the master's thesis, publication, report, patent, utility model right, etc. In addition, submit a copy or abstract for all the listed items of the research results.								
7	Research Plan	Use the specified form to prepare. Indicate the theme, purpose, method, and schedule of the intended research. Contact the faculty who is expected to be your advisor in advance. Once you have obtained an approval for acceptance, consult with the faculty and prepare the research plan.								
8	Reference for Educational Background	Use the specified form to prepare. 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: <table border="1" data-bbox="614 1093 1404 1227"> <thead> <tr> <th>Graduate</th> <th>Prospective graduate</th> </tr> </thead> <tbody> <tr> <td>· 教育部学历证书电子注册备案表*</td> <td>· 教育部学籍在线验证报告*</td> </tr> <tr> <td>· 毕业证书</td> <td>· 毕业预定证书</td> </tr> <tr> <td>· 学士（硕士）学位证书</td> <td></td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, December 4, 2020 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	· 教育部学历证书电子注册备案表*	· 教育部学籍在线验证报告*	· 毕业证书	· 毕业预定证书	· 学士（硕士）学位证书	
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· 学士（硕士）学位证书										

(Caution 1) It is required to attach the English or Japanese translation to the application document written in the other language.

(Caution 2) It is not required to submit the document No. 3, 5, 6 and 8 for the applicant who falls under the category of the item (7) or (8).

Quantum Matter Program

1. Admission Policy

[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 an 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.

2. Application Eligibility

A person who is of a non-Japanese nationality, lives outside Japan at the time of application for admission, and meets or is expected to meet either of the following items by the date of enrollment:

- (1) A person who has a master's degree or a professional degree;
- (2) A person who has been engaged in research activities in a university or research institute for two years or more after completing an undergraduate course, and has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree holders according to the results of those research activities;
- (3) A person who has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree or professional degree holders according to the result of the admission qualification examination separately conducted, and is 24 years or older at the time of the admission.

(Caution)

The applicant who falls under the category of the item (2) or (3) above is required to contact the Support Office indicated in the section " I Programs and Number of Students to be Admitted " (Page 4) and submit the required documents during the period from Monday, October 19, 2020 to Friday, October 30, 2020

3. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the address indicated in the section " I Programs and Number of Students to be Admitted " (page 4). Download the specified forms (5, 6 and 7) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document name	Note
1	Academic transcripts	Issued by the president of the university (the head of the graduate school) from which the applicant has graduated.
2	Certificate of graduation or certificate of expected graduation	Issued by the president of the university (the head of the graduate school) from which the applicant has graduated. 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:

		Graduate	Prospective graduate
		・教育部学历证书电子注册备案表* ・毕业证书 ・学士(硕士)学位证书	・教育部学籍在线验证报告* ・毕业预定证书
		* Obtain the document for which the Web authentication will be valid as of Friday, December 4, 2020 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp	
3	Copy of the Master's thesis	For the applicant who falls under the category of the item (1) above	
4	Intermediate report for the research results obtained after graduating from the university	For the applicant who falls under the category of the item (2) or (3) above. (In free format)	
5	Research Plan	Use the specified form to prepare. (600 words or longer)	
6	List of Research Achievements	Use the specified form to prepare.	
7	Letter of Recommendation	Use the specified form to prepare. Signed by the academic advisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.	
8	Certificate of English language ability	Score certificate of a standard English proficiency test such as TOEFL® and TOEIC®.	
9	Certificate of the Graduate Record Examinations (GRE) (voluntarily submitted)	The applicant who has taken GRE® can submit the certificate. The GRE institution code of Hiroshima University is 2358.	

(Caution)

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

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) Basic knowledge in the research area of the applicant's choice

Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences)

1. Admission Policy

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

2. Application Eligibility

A person who is of a non-Japanese nationality, lives outside Japan at the time of application for admission, and meets or is expected to meet either of the following items by the date of enrollment:

- (1) A person who has a master's degree or a professional degree;
- (2) A person who was conferred a degree equivalent to a master's degree or a professional degree in a foreign country;
- (3) A person who studied 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 passed through an education courses provided by a foreign education institution located in Japan which is established as a graduate course within the school education system in the concerned foreign country and is approved by the Ministry 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 passed through an education course of the United Nations University and earned a degree equivalent to a master's degree;
- (6) A person who passed through an education course of a national school, education institute defined in the item (4) above, or the United Nations University, got through the examination and qualification defined in the item 2 of Article 16 of the Graduate School Establishment Standards, and has been approved as a person who has academic abilities equivalent or superior to those of master's degree holders;
- (7) A person who has been designated by MEXT (The Ministry's Notification #118, issued on September 1, 1989), has been engaged in research activities in a university or research institute for two years or more after completing an undergraduate course, and has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree holders according to the results of those research activities;
- (8) A person who has been approved by the Graduate School of Advanced Science and Engineering as having academic abilities equivalent or superior to those of master's degree or professional degree holders according to the result of the admission qualification examination separately conducted, and is 24 years or older at the time of the admission.

(Caution)

The applicant who falls under either of the categories of the items (6) to (8) above is required to contact the Support Office indicated in the section " I Programs and Number of Students to be Admitted " (Page 4) and submit the required documents during the period from Monday, October 19, 2020 to Friday, October 30, 2020

3. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the address indicated in the section " I Programs and Number of Students to be Admitted " (page 4). Download the specified forms (1, 4, 5 and 7) from the web site of the Graduate School of Advanced Science and Engineering.

No	Document name	Note				
1	Personal History	Use the specified form to prepare.				
2	Academic transcripts	Issued by the president of the university (the head of the graduate school) from which the applicant has graduated.				
3	Graduation certificate or certificate of expected graduation	<p>Issued by the president of the university (the head of the graduate school) from which the applicant has graduated.</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"> ・ 教育部学历证书电子注册备案表* ・ 毕业证书 ・ 学士 (硕士) 学位证书 </td> <td> <ul style="list-style-type: none"> ・ 教育部学籍在线验证报告* ・ 毕业预定证书 </td> </tr> </tbody> </table> <p>* Obtain the document for which the Web authentication will be valid as of Friday, December 4, 2020 via the authentication system of the Ministry Education of China (中国高等教育学历证书查询). http://www.chsi.com.cn/xlcx/bgys.jsp</p>	Graduate	Prospective graduate	<ul style="list-style-type: none"> ・ 教育部学历证书电子注册备案表* ・ 毕业证书 ・ 学士 (硕士) 学位证书 	<ul style="list-style-type: none"> ・ 教育部学籍在线验证报告* ・ 毕业预定证书
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4	Copy of the Master's thesis	<p>For the thesis written in a language other than Japanese and English, prepare and submit a Japanese or English abstract in the specified format of "Abstract of Master's Thesis."</p> <p>The applicant who is preparing the master's thesis for graduation is required to prepare and submit an abstract in Japanese (with a length of approximately 2,000 characters) or English (with a length of approximately 800 words).</p>				
5	Research Plan	Use the specified form to prepare. It is required to describe the specific details of the research in Japanese or English.				
6	Record of published articles	<p>Published articles</p> <p>For the articles written in a language other than Japanese and English, attach an abstract in Japanese or English (in free format).</p>				
7	Letter of Recommendation (2 types)	<p>Use the specified form to prepare.</p> <p>① Letter signed by the head of an organization to which the applicant belongs.</p> <p>② Letter signed by the current advisors of the applicant's.</p>				
8	Score certificate of a language ability (optional)	<p>The applicant who has taken either ① or ② is required to submit one of those original score certificates. (We will check and return the original score certificate when we receive the application documents.)</p> <p>① English language proficiency test</p> <ul style="list-style-type: none"> ・ TOEIC®-Public Test ・ TOEIC®-IP ・ TOEFL®-PBT (ITP) ・ TOEFL®-iBT ・ IELTS Academic module ・ Cambridge English Qualifications <p>② JLPT (Japanese-Language Proficiency Test)</p>				

(Caution)

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

IV Application procedure

(1) Application method

Apply via internet and submit the application documents.

- ① Input the information regarding the application on the web site.
- 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 web site 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, November 9, 2020 - Friday, November 20, 2020 no later than 17:00

(3) Application via internet

◆ Inquiry regarding the system

Online application help desk (only Japanese language available)

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

Tel: +81-50-3756-5124

UCARO Office (only Japanese language available)

Service Hours: 10:00 - 18:00 (closed in the period from December 30 to January 3)

Tel: +81-50-3786-5524

- About unclear points regarding the entrance examination, ask the respective Support Office indicated in the section "I Programs and Number of Students to be Admitted" (Page 4).

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

Complete the following 8 steps during the application period.

Step 1: Access the Online 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 (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 Office indicated in the section "I Programs and Number of Students to be Admitted" (Page 4). 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.

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 methods 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 (500 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 case of the following item (1) or (2), 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 in the section "I Programs and Number of Students to be Admitted" (Page 4) before Friday, February 26, 2021.

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 examination fee is duplicated.

Step 7: Complete the registration of the application information.

Write down the application number of 6 digits that is shown on the screen.

Step 8: Mail the application documents.

For the submission address, refer to the section "I Programs and Number of Students to be Admitted" (Page 4).

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.

(4) Application documents

Required application documents vary for each Program.

Refer to the page for each Program listed in the section "III Application Eligibility and Required Documents" (Page 6) for details.

(5) Submission address for application documents

Refer to the section "I Programs and Number of Students to be Admitted" (Page 4).

V Miscellaneous

1. Instruction for Application

- (1) Consult with the faculty who is expected to be your advisor about your research theme before applying. For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the following web site.

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) The application document with a deficiency might be rejected. After the application documents are accepted, they shall not be returned and it is not allowed to amend the information described in them for any reason.
- (3) For the certificates, it is required to submit the original or a copy with the original certification. Any copy will not be accepted as the certificate without the original certification.
- (4) The score certificate of a language ability test (e.g. TOEIC® and TOEFL®) will be used for the following purposes:
- ① Entrance examination
 - ② Statistics and analysis of language ability 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 have failed to earn the expected degree or complete the expected school before the admission 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 required to submit the application form (in free format) which contains the following information to the “contact” described in the section “I Programs and Number of Students to be Admitted” (page 4) to arrange a consultation.

A. Period for the consultation: Monday, October 19 - Friday, October 30, 2020

B. Information to be described in the application

- ① Name & address of the applicant (the 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 faculty who is expected to be the applicant's advisor
- 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 entrance 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 purpose 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 applications). We neither use the information for the other purposes nor provide it to the person other than our concerned faculties and staffs.

4. Admission Procedure

(1) Documents for admission procedure

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

A part of the admission procedure is processed in UCARO system.

(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 2020. 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 Publication of Examination Results

(1) The information regarding the result of the entrance examination in the table below is disclosed only to the applicant (hereinafter referred to as the "applicant for disclosure").

Item	Disclosed information
Examination score	Evaluation of oral examination and submitted documents (evaluation level)

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

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

Also, it is required to submit the admission ticket for identification.

(4) The Application for Entrance Examination Result Disclosure will be accepted during the period from April 1, 2021 to May 31, 2021.

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

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. Therefore, please be advised that International applicants may be unable to receive their desired education or conduct their desired research due to the restriction by the above regulations.