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

General Selection Application Guidebook

November 2020



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
- ① 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 in General Selection for April 2021 admission to the Doctoral Course as indicated below.

[April 2021 admission (B Term)]

| Division | Program | Capacity | Admission capacity | Contact Submission address for application documents | |
|--|--|----------|---------------------|--|--|
| | Mathematics Program | | | | |
| | Physics Program | | | Support Office for the fields of Science 739-8526 | |
| | Earth and Planetary Systems Science Program | | | 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468 | |
| | Basic Chemistry Program | | | | |
| | Applied Chemistry Program | | | | |
| | Chemical Engineering Program | | | Support Office for the fields of Engineering 739-8527 1-4-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7518 | |
| Divi | Electrical, Systems, and Control Engineering Program | 1 128 | | | |
| sion | Mechanical Engineering Program | | | | |
| Division of Advanced Science and Engineering | Transportation and Environmental Systems Program | | Several students | | |
| | Architecture Program | | | | |
| | Civil and Environmental Engineering Program | | | | |
| ce ar | Informatics and Data Science Program | | | | |
| nd Engineering | Smart Innovation Program (Applied Chemistry) | | | | |
| | Smart Innovation Program (Electrical, Systems, and Control Engineering) | | | | |
| | Quantum Matter Program | | | Support Office for the fields of Science 739-8530 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7008, 7009 | |
| | Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) | | | Support Office for the fields of Integrated Arts and Sciences 739-8521 1-7-1 Kagamiyama, Higashi-Hiroshima | |
| | (Environmental and Ivatural Sciences) | | | Tel: 082-424-6316 | |
| | Transdisciplinary Science and Engineering Program | | | Support Office for the fields of International Development and Cooperation 739-8529 | |
| | (Development Sciences) | | | 1-5-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-4680 | |

(Caution)

- The selection for April 2021 admission is held for all the programs.
- Consult with the faculty who is expected to be your academic supervisor about your research theme before applying. For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the following website.
 - URL https://www.hiroshima-u.ac.jp/en/adse/research

II Outline of Entrance Examination

1. Schedule of the Entrance Examination

| Application period | Date of the entrance examination | Examination subject | Examination result announcement |
|--|--|---------------------|---|
| Monday, January 4, 2021 – Friday, January 8, 2021 | A day between Monday, January 18, 2021 and Monday, February 22, 2021, specified by the head of each Program. | Oral examination | 12:00, Wednesday, March 3, 2021, (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 "III Application Eligibility" (page 7).

3. Required Documents and Selection Process

Refer to the page for each Program listed in the section "IV Required Documents and Selection Process" (page 9) and confirm required documents and selection process (basic policy and evaluation criteria) respectively.

4. Application Procedure

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

 Refer to the procedure described in the section "V Application Procedure" (page 23).
- (2) Deliver or mail your application documents specified by the Program to the respective Support Offices listed in the section "I Programs and Number of Students to be Admitted" (page 5).

The Support Office is open from 8:30 am to 17:00 during the application period for the applicant who delivers the application documents.

In the case of submission via mail, the documents must be sent in a registered mail and reach us no later than 17:00, Friday, January 8. The documents received after this time shall be accepted when it is postmarked no later than Wednesday, January 6.

5. Result Announcement

We will send the acceptance certificate and the admission guide to the successful applicants by mail. An announcement will also be made on the website of the Graduate School of Advanced Science and Engineering, Hiroshima University (https://www.hiroshima-u.ac.jp/adse). 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 an announcement will not be made through posting on the bulletin board on campus.

(We do not answer any inquiry via phone.)

III Application Eligibility

1. Application Eligibility

The applicant must meet or is expected to meet either of the following items by the date of admission;

- (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 course 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 foreign school, an education institute defined in the item (4) above, or the United Nations University, passed the examination and evaluation defined in the provisions of 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 is designated by MEXT (as defined in the Notification of Ministry of Education, No. 118 of September 1, 1989);
- (a) Conducted research activities in a university or research institute for over two years after having graduated from a university, and has been approved by the Graduate School as having academic capabilities equivalent or superior to those of master's degree holders according to the result of the concerned research activities; or
- (b) Passed through a 16-year school education program in a foreign country, or studied class subjects provided by a foreign school as a correspondence course in Japan and passed through a 16-year education course within the school education system in the concerned foreign country, subsequently conducted research activities in a university or research institute for over two years or more, and has been approved by the Graduate School as having academic capabilities equivalent or superior to those of master's degree holders according to the result 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 or professional degree holders according to the result of the admission qualification examination that was separately conducted, and is 24 years or older at the time of the admission.

(Caution)

- (1) The applicant who is expected to meet either of the categories of the items (1) to (6) above must the condition specified by the respective items by March 31, 2021.
- (2) The applicant who falls under the category of the items (7) or (8) above must undergo a preliminary evaluation of application eligibility (refer to the "2. Prerequisites for Application").

2. Prerequisites for Application

(1) Preliminary Evaluation

The applicant who falls under the category of the items (7) or (8) above must undergo a preliminary evaluation of application eligibility. The concerned applicant must follow the procedures below.

a) Application Period

Monday, December 7, 2020, - 17:00, Friday, December 11, 2020

(In the case of submission via mail, the documents must be sent in a registered mail. Indicate 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 h and i) from the website 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 | Academic transcript | Issued by the president of the university or the dean of the faculty from which the applicant has graduated. |
| d | Certificate of graduation | Issued by the president of the university or the dean of the faculty from which the applicant has graduated. |
| 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. |

Only for the applicant who has graduate from a foreign university. 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:

Graduate Prospective graduate

Reference for Educational i Background

IV Required Documents and Selection Process

Note that required documents and selection process vary for each Program.

For the details, refer to the page listed in the table below.

| Program | Category | Page(s) to be referred | |
|--|---|------------------------|--|
| Mathematics Program | | | |
| Physics Program | Sajanaa Draarams | Pages 10 to 12 | |
| Earth and Planetary Systems Science Program | - Science Programs | 1 ages 10 to 12 | |
| Basic Chemistry Program | | | |
| Applied Chemistry Program | | | |
| Chemical Engineering Program | | | |
| Electrical, Systems, and Control Engineering Program | | Pages 13 to 16 | |
| Mechanical Engineering Program | | | |
| Transportation and Environmental Systems Program | Engineering Programs & Informatics and Data | | |
| Architecture Program | Science Program | | |
| Civil and Environmental Engineering Program | | | |
| Informatics and Data Science Program | | | |
| Smart Innovation Program (Applied Chemistry) | | | |
| Smart Innovation Program (Electrical, Systems, and Control Engineering Program) | | | |
| Quantum Matter Program | | Pages 17 to 18 | |
| Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) | | Pages 19 to 20 | |
| Transdisciplinary Science and Engineering Program (Development Sciences) | | Pages 21 to 22 | |

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
- ① 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
- ① 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 DocumentsAfter 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 5).

| 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 | | |
| 3 | Graduation certificate or certificate of expected graduation | which the applicant graduated. Issued by the president of the university or the dean of the graduate school which you have graduated. 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. 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 | | |
| 4 | Master's Thesis or Summary of Master's Thesis | http://www.chsi.com.cn/xlcx/bgys.jsp Copy of Master's thesis 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) | | |

5 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).

○Earth

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
- ① 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
- ① 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

① 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

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

① Common sense as a member of society and ethics required for researchers and highly-professional engineers.

2. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the Support Office listed in the section "Submission Address for Application Documents" (page 5). Download the specified forms (4, 6 and 7) from the website of the Graduate School of Advanced Science and Engineering.

| No | Document name | Note |
|----|---|---|
| 1 | Academic transcript of the undergraduate school | Issued by the president of the university or the dean of the faculty) from which the applicant has graduated. |
| 2 | Academic transcript of the graduate school | Issued by the president of the university or the dean of the graduate school from |

3. Selection Process
(1) Basic policy
The results of the oral examination (English-language proficiency, knowledge and problem-solving skills in Specialized subject, questions about Master's Thesis and Research Achievements) and documents screening will be

- (Caution 1) It is required to attach the English or Japanese translation to the application document written in the other language.
- (Caution 2) The applicant who has successfully passed a preliminary evaluation of application eligibility need not submit the document No. 1, 2 and 3 above.

3. 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 "II. Outline of Entrance Examination" (page 6). Specific schedule of the oral examination will be notified by the head of the program to which you will apply.

(4) Contents of oral Examination

The oral examination will include questions on applicants' Master's thesis presentation and thesis itself for those who have completed or are expected to complete Master's course, or questions on applicants' research achievement presentation and research achievement itself for others.

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
- ① Common sense as a member of society and ethics required for researchers and highly-professional engineers.

2. 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 5). Download the specified forms (1, 4 and 5) 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 or the dean of the faculty from which the applicant has graduated. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. | | |
| 3 | Graduation certificate or certificate of expected graduation | Issued by the president of the university or the dean of the faculty from which you have graduated. The certificate must be the original or the certified photocopy. The uncertified photocopy will not be accepted. If you are a graduate, make sure that the certificate includes information about your degree. 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 | | |
| | | http://www.chsi.com.cn/xlcx/bgys.jsp | | |
| 4 | Master's Thesis | Submit a copy of your Master's thesis. The applicant who is preparing the Master's thesis is required to submit an abstract (with a length of approximately 2,000 characters) in the specified form. The applicant who is unable to submit either the copy of Master's thesis or the abstract must submit any published thesis which proves your research ability. | | |
| 5 | Proposed Plan of Study | Use the specified form to prepare with a length of approximately 1,000 characters. | | |
| 6 | Approval Notice of Application Eligibility Evaluation | Only for the applicant who has successfully passed a preliminary evaluation of application eligibility. Issued by the dean of the Graduate School of Advanced Science and | | |

| | | Engineering, Hiroshima University. | |
|---|------------------------|--|--|
| 7 | 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). | |
| 8 | Copy of residence card | Only for foreign applicants residing in Japan. | |

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

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

3. Selection Process

(1) Basic policy

Academic abilities (based on the oral examination), foreign language (based on the oral examination), the academic transcript, master's thesis, and research plan will be comprehensively evaluated.

(2) Evaluation criteria

[Academic abilities(based on the oral examination),] Motivation, aspirations, and basic research knowledge will be evaluated in scale assessment.

[Foreign Language(based on the oral examination)] max. 100 points

(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 "II. Outline of Entrance Examination" (page 6). Specific schedule of the oral examination will be notified by the head of the program to which you will apply.

(4) Contents of oral Examination

(1) Academic abilities

Details will be notified on the day.

② Foreign Language

Please select one foreign language from English or Japanese, which is required for your research.

The applicant can submit the score certificate of the foreign language examination, or thesis, report, international conference material, etc. as a reference for the foreign language examination (oral examination). You may be asked to submit the reference materials by the faculty who is expected to be your advisor. Upon consultation with the advisor, choose one foreign language to be evaluated for the entrance examination and discuss the reference materials (foreign language certificate) you should submit.

- 1) The applicant who is taking the entrance examination in English can submit the score certificate of TOEIC® public test (L&R), TOEIC-IP test (L&R), TOEFL-PBT, TOEFL-iBT, the EIKEN Test in Practical English Proficiency, etc.
- 2) The applicant who is taking the entrance examination in Japanese can submit the score certificate of Japanese-Language Proficiency Test (N1) (Only for non-native speakers of Japanese) .
- 3) Research thesis, report, international conference material, etc. written in the foreign language you are taking the entrance examination.

(Caution)

- For the score certificates of either of 1-2 listed above, it is required to submit the original or a copy with the original certification. In the case you submit the copy, it is also required to bring the original score certificate on the day of entrance examination (the certificate which is printed from the internet cannot be accepted). The original certificate will be returned to the applicants at a later date.
- For the score certificates of either of 1-2 listed above, only the certificate of the examinations that has been held on April 1,2017 or later can be accepted.
- The original score certificates of either of 1-2 listed above that you acquired after the application deadline can be presented in the oral examination.
- The applicant who has the score certificates of other language than English and Japanese can submit the score certificate of the concerned foreign language in addition to the score certificates of either of 1-3 listed above.
- Applicants who are unable to submit any score certificate due to the suspension of language ability examination because of COVID-19 should contact the faculty who is expected to be your advisor in advance. Contact Period: no later than Friday, December 11, 2020.

Transdisciplinary Science and Engineering Program (Development Science)

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 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 5). Download the specified forms (4 5 and 6) 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 or the dean of the graduate school from which the applicant has graduated. If the certificate does not indicate evaluation criteria of grading, submit another document issued by the university that includes evaluation criteria of grading. | | | | | |
| 2 | Graduation certificate or certificate of expected graduation | Issued by the president of the university or the dean of the graduate school from which the applicant has graduated. If you are a graduate, make sure that the certificate includes information about your degree. 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 | | | | | |
| 3 | Master's Thesis | A copy of master's thesis or academic reports equivalent to master's thesis. Four(4) A4 pages Three copies Use the specified form to prepare. Applicants who have scholarly achievements after acquiring the Master's degree can submit reports on research progress instead of a summary of Master's thesis. Applicants who have not received a Master's degree must submit reports on research progress. | | | | | |
| 4 | Outline of Master's Thesis | | | | | | |
| 5 | Research Plan | Use the specified form to prepare. | | | | | |

| | | Approval for Entrance Examination | The applicant who is currently enrolled in a graduate school Use the specified form to prepare. The applicant who is enrolled in another graduate school must submit a letter of approval for taking the entrance examination issued by the president of the university or the dean of the graduate school | | | |
|---|---|--|--|--|--|--|
| | 6 | | The applicant who works in private company, international organization, governmental organization, local government, or educational organization | Use the specified form to prepare. The applicant who currently works in private company, international organization, governmental organization, local government, or educational organization and wishes to enroll in our graduate school while in service must submit a letter of approval for taking the entrance examination issued by the organization. | | |
| | 7 | Japanese Government (MEXT) Scholarship | Only for Japanese | Government (MEXT) Scholarship recipients | | |
| | | Certificate | ` | | | |
| j | | | One of the follow | One of the following certificates: | | |
| | | | ·Score certificate of TOEFL or other equivalent English language test | | | |
| | 8 | Language Ability | ·Score certificate of Japanese Language Proficiency Test or other equivalent | | | |
| | 3 | Certificate | Japanese language test | | | |
| | | | Other official documents certifying the English/Japanese language ability | | | |
| | | | Photocopy of the certificates are not acceptable. | | | |
| | 9 | Return envelope | Use standard envelope (12cm | | | |

9 Return envelope

V 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 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 deliver or 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 of \bigcirc , \bigcirc , and \bigcirc listed in the "(1) Application method" during the application period.

Monday, January 4, 2021 – 17:00, Friday, January 8, 2021

In the case of (submission via mail), the documents must be sent in a registered mail and reach us no later than 17:00, Friday, January 8. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, January 6.

(3) Application via internet

Inquiry regarding the system

Internet application help desk (only Japanese language available)

Open: 10:00 - 18:00 (closed on Saturday, Sunday, and national holidays)

Tel: 0570-06-5124

UCARO Office (only Japanese language available)

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

Tel: 0570-06-5524

For inquiries regarding the entrance examination, refer to the respective Support Offices listed in the section "I Programs and Number of Students to be Admitted" (page 5).

Open: 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 Online Application System.

Access the following website:

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 system is required for application (free of charge).

Hiroshima University uses the system of UCARO for checking the applicant's number and processing a part of admission procedure for the applicant who will pass the entrance examination.

Step 3: Input your account information (applicable to the admission examination category for which it is required).

The applicant who applies for exemption from the entrance examination fee must consult in advance with the respective Support Offices listed in the section "I Programs and Number of Students to be Admitted" (page 5) to obtain the alphanumeric characters of eight or more digits and 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. Convenience store: 7-ELEVEN, Lauson, MINISTOP, FamilyMart, Daily Yamazaki, and Seicomart
- 3. ATM of a financial institution [Pay-easy]
- 4. 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 students who have applied for (or intend to apply for) extension of scholarship payment

(5) Submission address for application documents

Refer to the respective Support Offices listed in the section "I Programs and Number of Students to be Admitted" (page 5).

VI Miscellaneous

1. Instruction for Application

(1) Consult with the faculty who is expected to be your academic supervisor about your research theme before applying. For the information regarding faculties of the Graduate School of Advanced Science and Engineering, refer to the 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) The application documents with a defect 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 without the original certification will not be accepted as the valid certificate.
- (4) The admission approval shall be withdrawn when it is found that the submitted documents contain any false indication.
- (5) 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 earn the expected degree or complete the expected school before the date of admission.

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 respective Support Office listed in the section "I Programs and Number of Students to be Admitted" (page 5) to arrange a consultation.

- A. Period for the consultation: Monday, December 7 Friday, December 11, 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 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 entrance examination.
 - (5) Measures to be taken for 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 admission procedures. 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 purpose nor provide it to the person other than our concerned faculties and the staff.

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

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

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 Disclosure of Examination Results

(1) The information regarding the result of the entrance examination for the Graduate School of Advanced Science and Engineering listed below is disclosed only to the person who has applied for the entrance examination (hereinafter referred to as the "applicant for disclosure").

| Item | Disclosed information |
|-------------|---|
| Examination | Evaluation for each subject (including the results of the scale assessment) |
| score | Evaluation for each subject (including the results of the scale assessment) |

- (2) The examination results (personal information) will be delivered on the respective Support Offices or be sent via mail to the applicant for disclosure.
- (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 of Advanced Science and Engineering, fill in the required information, and directly submit or mail it to the respective Support Office.

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 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 Hiroshima University 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.

Refer to the PDF file available in the following website. https://www.hiroshima-u.ac.jp/system/files/130094/menjo_r2.pdf

8 Contact

Refer to the respective Support Offices listed in the section "I Programs and Number of Students to be Admitted" (page 5).