# **Graduate School of Advanced Science and Engineering**

(Master's Course)

**Division of Advanced Science and Engineering** 

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

Mathematics Program
Physics Program
Earth and Planetary Systems Science Program
Basic Chemistry Program
Ouantum Matter Program

**May 2021** 



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### I Admission Policy

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

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

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

#### 2. Admission Policy of each Program

#### [Mathematics Program]

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

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

#### [Physics Program]

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

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

#### [Earth and Planetary Systems Science Program]

The Earth and Planetary Systems Science Program seeks students who have the following aspirations and motivation and have the basic academic abilities necessary for it:

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

#### [Basic Chemistry Program]

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

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

#### [Quantum Matter Program]

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

- ① The will to be engaged in professional occupations such as researchers and engineers in area of the basic materials science, condensed material physics, material science and engineering, and electronic engineering;
- ② An ambition for acquiring knowledge and skills related to areas mentioned above regardless of the experience and background before entering the university;
- 3 A wish to build up new businesses as well as exploring scientific facts and applying scientific findings from the academic point of view;
- A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring knowledge and study skills for the academic areas related to the basic materials science, condensed material physics, material science and engineering, and electronic engineering as well as a wide range of intelligence; and
- ⑤ Common sense and ethics required for a member of society.

# II Programs and Number of Students to be Admitted

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

#### (October 2021 Admission)

| Division  | Program  | Capacity | Admission<br>Capacity | Venue for Examination                                | Contact Submission address for application documents  |
|---|--|----------|-----------------------|--|---|
| Division of Advanced Science and<br>Engineering | Mathematics Program  Physics Program  Earth and Planetary Systems Science Program  Basic Chemistry Program | 449      | Several<br>students   | School of<br>Engineering,<br>Hiroshima<br>University | Support Office for the fields of Science 739-8526 1-3-1 Kagamiyama, Higashi-Hiroshima Tel: 082-424-7309, 4468  Support Office for the fields of Science (AdSM) 739-8530 |
| nce and   | Quantum Matter Program   |          |                       |  | 1-3-1 Kagamiyama, Higashi-Hiroshima<br>Tel: 082-424-7008, 7009  |

#### (Caution)

- The selection for October 2021 admission will be suspended for the following Programs:
- 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 / Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) / Transdisciplinary Science and Engineering Program (Development Sciences)
- Consult with the faculty who is expected to be your academic advisor about your research theme before applying. For the information regarding faculty of the Graduate School of Advanced Science and Engineering (hereinafter referred to as "the Graduate School"), refer to the following website.

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



### **III Outline of Entrance Examination**

#### 1. Schedule of the Entrance Examination

(1) Mathematics Program

| Application period      | Date of the entrance examination              | Examination subject | Examination result announcement |
|-------------------------|---|---------------------|---------------------------------|
|                         | Thursday, August 26, 2021, 9:00-              | Written             |                                 |
| Friday, July 16, 2021 – | Friday, August 27, 2021, 9:00-                | examination         | Friday, September 3, 2021,      |
| Monday, July 26, 2021   | Enidory Associat 27, 2021, 12-20              | Oral                | 12:00                           |
| Wioliday, July 20, 2021 | Friday, August 27, 2021, 13:30-               | examination         | (tentative schedule)            |
|                         | (Preliminary date: Saturday, August 28, 2021) |                     |                                 |

(2) Physics Program / Earth and Planetary Systems Science Program / Basic Chemistry Program

| (2) 1 In joine 1 10 growth , Zutrin white 1 tours with z joine 2 10 februari , Zutrin 6 110 growth |   |                     |                                 |
|--|---|---------------------|---------------------------------|
| Application period   | Date of the entrance examination              | Examination subject | Examination result announcement |
|  | Thursday Assessed 26, 2021, 0:00              | Written             |                                 |
| Friday, July 16, 2021 –<br>Monday, July 26, 2021   | Thursday, August 26, 2021, 9:00-              | examination         | Friday, September 3, 2021,      |
|  | Enidous Associat 27, 2021, 0:00               | Oral                | 12:00                           |
| Monday, July 26, 2021  | Friday, August 27, 2021, 9:00-                | examination         | (tentative schedule)            |
|  | (Preliminary date: Saturday, August 28, 2021) |                     |                                 |

(3) Quantum Matter Program

| Application period                               | Date of the entrance examination              | Examination subject | Examination result announcement |
|--|---|---------------------|---------------------------------|
|  | Thursday, Assent 26, 2021, 12:20              | Written             |                                 |
| Enidory July 16 2021                             | Thursday, August 26, 2021, 13:30-             | examination         | Friday, September 3, 2021,      |
| Friday, July 16, 2021 –<br>Monday, July 26, 2021 | Friday, August 27, 2021, 10:00-               | Oral                | 12:00                           |
| Wioliday, July 20, 2021                          | Filday, August 27, 2021, 10:00-               | examination         | (tentative schedule)            |
|  | (Preliminary date: Saturday, August 28, 2021) |                     |                                 |

#### (Caution)

For from (1) to (3) above, in the difficult case of carrying out the entrance examination because of bad weather, epidemic, etc., the entrance examination may be held on the preliminary day. Postponement of the examination, extension of the starting time of the examination and so forth will be notified on the website of the Graduate School (https://www.hiroshima-u.ac.jp/adse).

#### 2. Application Eligibility

Refer to the section "IV Application Eligibility" (pages  $8 \sim 9$ ).

#### 3. Application Documents and Selection Process

Refer to the respective pages isted in the section "V Application Documents and Selection Process" (page 10) to see the application documents and selection process (examination subject, basic policy, and evaluation criteria) for each Program.

#### 4. Application Procedure

- (1) Your application will be accepted via internet during the application period.
  Refer to the procedures described in the section "VI Application Procedure" (page 16~17).
- (2) Deliver in person or mail your application documents specified by each Program to respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (pages 5) during the application period. In the case of submission via delivery in person, the documents will be accepted in respective Support Offices

from 8:30 to 17:00 during the application period.

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

#### 5. Result Announcement

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

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

(We do not answer any inquiry via phone.)

### **IV** Application Eligibility

#### 1. Application Eligibility

Those who are of a non-Japanese nationality, live in Japan at the time of application for admission, and must meet or are expected to meet by the date of enrollment either of the following criteria.

- ◆Mathematics Program/ Physics Program/ Earth and Planetary Systems Science Program/ Basic Chemistry Program
  The applicant must meet either of the criteria (1) to (10)
- ◆Quantum Matter Program

The applicant must meet either of the criteria (3), (6) or (10).

- (1) A person who graduated from a university or college.
- (2) A person who earned a bachelor's degree from the National Institution for Academic Degrees and Quality Enhancement of Higher Education according to the provision of Section 7 of Article 104 of School Education Act (Act No. 26 of 1947) (Hereinafter referred to as "Expected graduate").
- (3) A person who completed a 16-year school education course in a country other than Japan and earned a bachelor's degree.
- (4) A person who studied the class subjects provided by a foreign school as a correspondence course in Japan and, as a result, completed the 16-year school education course in the concerned foreign country.
- (5) A person who completed an education course in Japan provided by a foreign education institute which is established as an undergraduate course (limited to that for which the person who completed the course is regarded as having completed the 16-year school education course in the concerned foreign country) within the school education system in the concerned foreign country and has been separately specified by the Minister of Education, Culture, Sports, Science and Technology (MEXT).
  - (6) A person who earned a degree equivalent to a bachelor's degree after completing a course of which the term is 3 years or longer (including a person who studied the class subjects provided by a foreign school as a correspondence course in Japan and completed the concerned education course; and a person who completed the education course in Japan provided by a foreign education institute which is established within the school education system in the concerned foreign country and is specified in the item (5) above) in a university or the other school in a foreign country, which has been evaluated for the comprehensive conditions of the education and research activities by a person who is authorized by the government or the concerned institutions of the concerned foreign country, or has been separately specified as equivalent by MEXT.
- (7) A person who completed, after the date specified by MEXT, the specialized course of a specialized training college (limited to that meets the criteria specified by MEXT, such as its term is 4 years or longer) which is separately specified by MEXT.
- (8) A person who has been specified by MEXT (as defined in the Notification of Ministry of Education, No. 5 of 1953: e.g. a person who graduated from a university established under the University Ordinance in 1886 or a college established under a law stipulated for the concerned government agency regarding its establishment such as the act for establishment, order for organization, and individual law for the Incorporated Administrative Agencies).
- (9) A person who wishes to transfer to the Graduate School after once entereing other graduate school according to Section 2 of Article 102 of the Act and has been approved by the Graduate School as having academic abilities required for the education in the Graduate School.
  - (10) A person who has been approved by the Graduate School as having academic abilities equivalent or superior to those of bachelor degree holders according to the result of the examination that was separately conducted, and is 22 years or older.
- (Caution 1) The Applicant who is expected to meet either of the criteria (1) to (8) above must obtain the concerned application eligibility by September 30, 2021 for October 2021 admission.
- (Caution 2) The applicant who falls under either of the criteria (9) or (10) above is subject to a preliminary evaluation of the application eligibility (refer to "2. Preliminary Evaluation").

#### 2. Preliminary Evaluation

#### (1) Preliminary Examination

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

#### a) Application Period

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

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

#### b) Application Documents

Download the specified forms (a, b and c) from the website of the Graduate School.

|   | Document name                                  | No  | ote  |
|---|--|---|--|
| a | Application Form for<br>Preliminary Evaluation | Use the specified form to prepare.  |  |
| b | Record of Application Eligibility Evaluation   | Use the specified form to prepare.  |  |
| c | Reasons for Application                        | Use the specified form to prepare.  |  |
| d | Research plan                                  | Use A4 sized sheets; Any format is achievements, if any.  | acceptable. Attach a list of research  |
| e | Academic transcript                            | attending.  | versity the applicant attended or is application eligibility (9) above must bir undergraduate studies. |
| f | Certificate of graduation                      | submit a certificate of enrollment. The applicant who graduated or university in China (excluding that i is also required to submit the following and an organized to submit the following and an organized by the submit the following and an organized by the submit and an organize | Prospective Graduate   |
| g | Return envelope                                | Use a standard envelope (12cm× address and name; affix a 374-yen st   | 23.5cm in size) and fill out your tamp to the front.   |

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

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

(Caution 3) The applicant who has successfully passed a preliminary evaluation must submit the application documents (except the ones which have been already submitted in a preliminary evaluation) specified for each program. Refer to the respective pages listed in the section "V Application Documents and Selection Process" (page 10).

# V Application Documents and Selection Process

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

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

| Program                                     | Category           | Page(s) to be referred |
|---|--------------------|------------------------|
| Mathematics Program                         |                    |                        |
| Physics Program                             | Coiomaa Dua auruma | D 11 4- 12             |
| Earth and Planetary Systems Science Program | Science Programs   | Pages 11 to 13         |
| Basic Chemistry Program                     |                    |                        |
| Quantum Matter Program                      |                    | Pages 14 to 15         |

# Science Programs

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

#### 1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section "II Programs and Number of Students to be Admitted" (page 5).

| No | Document name   | N   | Note   |  |
|----|---|---|--|--|
| 1  | Academic transcript   | Issued by the president of the university or the dean of the faculty the applicant attended or is attending.  |  |  |
|    |   | Issued by the president of the university or the dean of the faculty the applicant attended or is attending.  The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is also required to submit the following documents:  |  |  |
| 2  | Certificate of graduation or certificate of expected graduation   | Graduate   ・教育部学历证书电子注册备案表*   | Prospective graduate ・教育部学籍在线验证报告* ・毕业预定证书                                     |  |
|    |   | * Obtain the document for which the Tuesday, August 10, 2021 via the Education of China (中国高等教育)  |  |  |
| 3  | Certificate of expected application for the conferment of a bachelor's degree or certificate of a bachelor's degree | http://www.chsi.com.cn/xlcx/bgys.jsp  Only for the applicant who falls under the application eligibility of (2) above.  • Expected graduate: Certificate of expected application for the conferment of a bachelor's degree issued by the president of a college of technology.  • Bachelor's degree holder: Certificate of a bachelor's degree issued by the National Institution for Academic Degrees and Quality Enhancement of Higher Education. |  |  |
| 4  | Score certificate of<br>English language<br>proficiency   | Only for the applicant for Physics Program, Earth and Planetary Systems Science Program or Basic Chemistry Program.  Submit the original score certificate from any of TOEIC® public test, TOEIC®-IP (including College TOEIC®), TOEFL®-CBT, TOEFL®-PBT, or TOEFL®-iBT. If you want your sheet to be returned, please inform us at the time of application. Refer to Caution 3 below for the details.   |  |  |
| 5  | Return envelope   | Use a standard envelope $(12cm \times 23.5)$ name; affix a 94-yen stamp to the front  | 5cm in size) and fill out your address and (for sending the Examination Card). |  |

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

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

(Caution 3) Regarding score certificate of English language proficiency

Physics Program, Earth and Planetary Systems Science Program and Basic Chemistry Program will use TOEIC® or TOEFL® scores in place of a written foreign language (English) examination.

The original score certificate of TOEIC® public test, TOEIC®-IP (including College TOEIC®), TOEFL®-CBT, TOEFL®-PBT, or TOEFL®-iBT will be accepted. The applicant is required to submit, along with other required documents, the original score certificate of either of these examinations who has taken more than one examination must choose one to submit. If you cannot submit the score certificate please contact the Support Office for the fields of Science.

The applicant who wishes to send their score certificate of TOEIC®-IP collectively conducted for all Hiroshima University undergraduate students and does not have their score certificate at hand must contact the Support Office for the fields of Science.

The applicant who does not submit their score certificate may take the rest of a written foreign language (English) examination (if applicable) but will receive 0 (zero) points for the corresponding portion of the examination.

#### 2. Selection Process

#### (1) Basic Policy

#### OMathematics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course, and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, academic aptitude examinations (written examination on the specialized subject, an oral examination, Foreign language proficiency exam) are given to the applicant to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities. The result of the written examination and foreign language proficiency examination are evaluated by point-based scores. The result of the oral examination is evaluated by grade-based scores.

#### OPhysics Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, academic aptitude examinations (written examination on the specialized subject and an oral examination) are given to the applicant to evaluate basic knowledge, the ability to understand, think and self-express, and other abilities.

Admission to the course is determined based on a comprehensive evaluation of the results of the examinations, the foreign language proficiency and the academic transcript of the applicant.

#### oEarth and Planetary Systems Science Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, the academic transcript of the applicant, the results of written examination on the specialized subject and an oral examination, and English language proficiency are comprehensively evaluated. The result of the written examination and foreign language proficiency (base on the score certificate of TOEIC® or TOEFL®) are evaluated by point-based scores. The result of the oral examination and the academic transcript are evaluated by grade-based scores.

#### OBasic Chemistry Program

To evaluate whether an applicant has acquired specialized knowledge and foreign language proficiency in the Bachelor's course and whether the applicant can engage in academic activities in accordance with the Curriculum Policy of the course, the academic transcript of the applicant, the results of written examination on the specialized subject and an oral examination, and English language proficiency are comprehensively evaluated. The result of the written examination and foreign language proficiency (base on the score certificate of TOEIC® or TOEFL®) are evaluated by point-based scores. The result of the oral examination and the academic transcript are evaluated by grade-based scores.

#### (2) Evaluation Criteria

OMathematics Program

[Written examination] Specialized subject (max. 400 points); foreign language (max. 100 points)

[Oral examination] Scale of 1 to 4

[Academic transcript] Scale of 1 to 3

#### OPhysics Program

[Written examination] Specialized subject (max. 400 points)

[Foreign language] TOEIC® or TOEFL® scores converted to max. 100 points

[Oral examination] Scale of 1 to 4

[Academic transcript] Scale of 1 to 3

#### ©Earth and Planetary Systems Science Program

[Written examination] Specialized subject (max. 400 points)

[Foreign language] TOEIC® or TOEFL® scores converted to max. 200 points

[Oral examination] Scale of 1 to 4

[Academic transcript] Scale of 1 to 3

#### OBasic Chemistry Program

[Written examination] Specialized subject (max. 400 points)

[Foreign language] TOEIC® or TOEFL® scores converted to max. 100 points

[Oral examination] Scale of 1 to 4

[Academic transcript] Scale of 1 to 3

#### (3) Written Examination and Oral Examination Schedule

| Program Name  | Written Examination |                     | Oral Examination          |                            |
|---|---------------------|---------------------|---------------------------|----------------------------|
| Mathematics Program   | Thursday, August 26 | Specialized subject | 9:00-12:00<br>13:30-16:30 | Friday, August 27, 13:30 - |
| Wautchaucs Frogram  | Friday, August 27   | Foreign language    | 9:00-11:00                | 111day, August 27, 13.50   |
| Physics Program   |                     |                     |                           |                            |
| Earth and Planetary Systems Science Program Basic Chemistry Program | Thursday, August 26 | Specialized subject | 9:00-12:00                | Friday, August 27, 9:00 -  |

(Caution 1) The written examination in foreign language must be English.

(Caution 2) For the contents of the written examination in specialized subject, refer to the table below. The use of dictionaries will not be allowed during the written examination in foreign language.

(Caution 3) Details of the oral examination will be notified when sending the examination card and on the examination day.

(Caution 4) The applicant for Mathematics Program is requested to consult with the relevant Support Office about the contents of the examination.

| Program Name                                      | Contents   |  |
|---|--|--|
| Mathematics Program                               | Basic questions concerning mathematics   |  |
| Physics Program                                   | Four questions concerning dynamics, electromagnetics, quantum dynamics, and thermal / statistical dynamics |  |
| Earth and Planetary<br>Systems Science<br>Program | Six questions concerning earth and planetary systems science; four questions must be chosen and answered.  |  |
| Basic Chemistry<br>Program                        | Basic questions from respective branches of chemistry  |  |

# Quantum Matter Program

#### 1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section "II Programs and Number of Students to be Admitted" (page 5). Download the specified forms (3 and 4) from the website of the Graduate School.

| No | Document name  | Note  |  |  |
|----|--|---|--|--|
| 1  | Academic transcript  | Issued by the president of the university or the dean of the faculty the applicant attended or is attending.  (For the applicant who falls under the application eligibility of (3) in the section "IV Application Eligibility".)   |  |  |
| 2  | Certificate of graduation or certificate of expected graduation        | Issued by the president of the university or the dean of the faculty the applicant attended or is attending. (For the applicant who falls under the application eligibility of (3) in the section "IV Application Eligibility".) The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is also required to submit the following documents:    Graduate |  |  |
| 3  | Research Plan  | Use the specified form to prepare.  |  |  |
| 4  | Letter of Recommendation   | Use the specified form to prepare.  Signed by the applicants academic advisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.   |  |  |
| 5  | Score certificate of English language proficiency                      | Original score certificate of the examination such as TOEFL® or TOEIC®  |  |  |
| 6  | Copy of residence card   | If the applicant's address is written on the back side of the card, make a two-sided copy.  |  |  |
| 7  | Return Envelope  | Use a standard envelope (12cm×23.5cm in size) and fill out your address and name; affix a 94-yen stamp to the front (for sending the Examination Card)  |  |  |
| 8  | Certificate of the Graduate<br>Record Examinations (GRE)<br>(Optional) | Submit the certificate of GRE, if any.  |  |  |

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

#### 2. Selection Process

#### (1) Basic Policy

The results of the academic ability examinations (written and oral examination), English score (evaluated by the certificate of English language proficiency), and the submitted documents (e.g., academic transcript) will be evaluated totally to determine successful applicants.

The written examination is available in either Japanese or English.

#### (2) Evaluation criteria

[Written Examination] Basic subject (max. 100 points)

[Oral Examinaion] specialized subject (max. 400 points);

common examination (Three-level evaluation (A, B, C) is performed.)

[English] max. 100 points (converted from the score certificate of English language proficiency) [Submitted documents] Three-level evaluat converted ion (A, B, C) is performed.

#### (3) Date of the entrance examination

| Written examination                    | Oral examination                 |
|--|----------------------------------|
| Thursday, August 26, 2021, 13:30-15:00 | Friday, August 27, 2021, 10:00 - |

(Caution) Details of the oral examination will be notified when sending the examination card and on the examination day.

#### (4) Contents of Written Examination and Oral examination

| Field **                  | Category            | Examination Subjects   |
|---------------------------|---------------------|--|
| Physics                   | Written examination | [Basic subject]  |
|                           |                     | Mathematics  |
|                           | Oral examination    | [Specialized subject] (oral assessment)                                  |
|                           |                     | Classical Mechanics  |
|                           |                     | • Electromagnetism   |
|                           |                     | Quantum Mechanics  |
|                           |                     | Statistical Thermodynamics   |
|                           |                     | [common examination]   |
|                           |                     | Motivation, aptitude for the desired subject of study and basic academic |
|                           |                     | abilities will be evaluated.   |
| Electronic<br>Engineering | Written examination | Basic subject  |
|                           |                     | Mathematics  |
|                           | Oral examination    | [Specialized subject] (oral assessment)                                  |
|                           |                     | • Electromagnetism   |
|                           |                     | Electronic Circuits  |
|                           |                     | Semiconductor Engineering  |
|                           |                     | Quantum Mechanics  |
|                           |                     | (common examination)   |
|                           |                     | Motivation, aptitude for the desired subject of study and basic academic |
|                           |                     | abilities will be evaluated.   |

<sup>\*\*</sup> Please choose and specify either Physics Field or Electronic Engineering Field in the form of "Registration of selected subject for Applicants of Quantum Matter Program".

### VI Application Procedure

#### 1. Application Method

Apply via internet and submit the application documents.

- ① Input the information regarding the application on the website.
- 2 Pay the entrance examination fee of 30,000 yen.
- 3 Deliver in person or mail the application documents.

#### (Caution)

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

#### 2. Application Period

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

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

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

#### 3. Application via internet

◆ Inquiry regarding the system

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

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

Tel: 03-5952-3902

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

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

Service Hours: 10:00 - 18:00 Tel: +81-50-3786-5524

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

○ About unclear points regarding the entrance examination, ask the respective Support Offices indicated in the section "II Programs and Number of Students to be Admitted" (page 5).

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

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

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

Complete the following 8 steps during the application period.

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

Access the following web page:

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



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

Account registration for UCARO (free 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 Offices indicated in the section "II Programs and Number of Students to be Admitted" (page 5). Once you have been notified by the concerned Support Office the alphanumeric characters with eight or more digits, please input them.

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

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

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

#### Step 5: Upload your photograph.

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

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

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

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

(Caution)

- The applicant has to pay the charge for use of the Internet Application System (650 yen per application) in addition to the entrance examination fee.
- · MEXT Scholarship recipients are exempted from the entrance examination fee.
- The entrance examination fee once paid will not be returned for any reason after the application is accepted. In either (1) or (2) of the following cases, the entrance examination fee once paid will be returned after deducting the transfer fee. We will mail the form of the "Refund Claim" for refund of the examination fee. Fill in the required information such as the "application number," "name in kana letters," "name," "phone number," "address," "payee account information," and "reason of refund claim," imprint your seal on the form, and mail the form to the respective Support Office indicated in the section "II Programs and Number of Students to be Admitted" (page 5) before Monday, February 28, 2022.

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

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

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

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

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

For the submission address, refer to the section "II Programs and Number of Students to be Admitted" (page 5).

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

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

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

#### VII Miscellaneous

#### 1. Instruction for Application

(1) Consult with the faculty who is expected to be your academic advisor about your research theme before applying. For the information regarding the faculty of the Graduate School, refer to following website.

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



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

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

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

The applicant who needs special consideration for the entrance examination and/or education in the Graduate School is requested to submit the application form for the consultation (in free format) to the respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (page 5). The application form must contain the following information.

- A. Period for the consultation: Monday, June 28 Friday, July 2, 2021
- B. Information to be described in the application form
- ① Name & address of the applicant (the applicant's phone number must be included)
- ② Name of the university from which the applicant has graduated, Program for which the applicant will apply, and the name of the faculty who is expected to be the applicant's academic supervisor
- Type and severity of the disability (submit a medical certificate issued by a doctor if the applicant is in treatment)
- 4 Measures to be taken for the examination
- (5) Measures to be taken for the education in the Graduate School
- 6 Specific measures that were taken in the university from which the applicant has graduated
- (7) Conditions of the daily life

#### 3. Handling of Personal Information

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

#### 4. Admission Procedure

(1) Documents for admission procedure

The documents will be sent after the selection result is announced. UCARO system is used as a part of the admission procedures.

#### (2) Fee

A: Enrollment fee: 282,000 yen B: Tuition (per year): 535,800 yen

- ① The enrollment fee once paid will not be returned for any reason.
- ② The amounts listed above are as of April 2021. When the amount is revised at the time of admission or while the student is enrolled in the university, it is required to pay the revised amount.

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

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

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

- (2) The examination result (personal information) will be disclosed on the respective Support Offices or sent via mail.
- (3) The applicant for disclosure is required to download the form of "Application for Entrance Examination Result Disclosure" from the website of the Graduate School, fill in the required information, and directly submit or mail it to the respective Support Offices.

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

- (4) The "Application for Entrance Examination Result Disclosure" will be accepted during the period from October 1, 2021 to November 30, 2021.
- (5) The result of the application shall be notified within 30 days after the "Application for Entrance Examination Result Disclosure" is accepted.

#### 6. Others

- (1) Smoking has been prohibited entirely in all HU campuses from January, 2020.
- (2) Hiroshima University has established the university's Rules on Security Export Control in accordance with the Foreign Exchange and Foreign Trade Act, and conducts strict examinations for acceptance of international students, etc. Please note in advance that international students may be unable to receive their desired education or conduct their desired research due to the restriction by the above regulations.

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

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

The applicant who wishes to be exempted from the entrance examination fee must contact in advance the respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (page 5).

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

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

#### 2 Special Measure

Exemption from the entrance examination fees

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

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

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

#### 4 The Applicant Eligible for Exemption

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

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

#### 5 Application

The applicant must contact in advance the respective Support Offices listed in the section "II Programs and Number of Students to be Admitted" (page 5), and subsequently submit the specified application documents for exemption along with other required documents for admission.

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

#### 6 Application Documents

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

#### 7 Application Process (Internet Application)

Refer to the PDF file available from the following website.

https://www.hiroshima-u.ac.jp/system/files/131856/Online application procedures for-Application Fees Exemption.pdf

#### 8 Contact

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