

**April 2025 Admission**

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

**Division of Advanced Science and Engineering**

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

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

**October 2024**



# Contents

|  |    |
|--|----|
| I Admission Policy .....   | 3  |
| 1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of<br>Advanced Science and Engineering (Doctoral Course)  |    |
| 2. Admission Policy of each Program  |    |
| Programs and Number of Students to be Admitted .....   | 8  |
| Outline of Entrance Examination.....   | 9  |
| 1. Schedule of the Entrance Examination  |    |
| 2. Application Eligibility   |    |
| 3. Application Documents and Selection Process   |    |
| 4. Application Procedure   |    |
| 5. Examinee's Number and Printing the Examination Card   |    |
| 6. Result Announcement   |    |
| Application Eligibility .....  | 10 |
| 1. Application Eligibility   |    |
| 2. Preliminary Evaluation  |    |
| Application Documents and Selection Process.....   | 12 |
| <b>Science Programs</b> .....  | 13 |
| (Mathematics / Physics / Earth and Planetary Systems Science / Chemistry)  |    |
| 1. Application Documents   |    |
| 2. Selection Process   |    |
| <b>Engineering Programs &amp; Informatics and Data Science Program</b> .....   | 15 |
| (Applied Chemistry / Chemical Engineering / Electrical, Systems, and Control Engineering /<br>Mechanical Engineering / Transportation and Environmental Systems / Architecture / Civil and<br>Environmental Engineering / Informatics and Data Science / Smart Innovation) |    |
| 1. Application Documents   |    |
| 2. Selection Process   |    |
| <b>Quantum Matter Program</b> .....  | 17 |
| 1. Application Documents   |    |
| 2. Selection Process   |    |
| Application Procedure .....  | 19 |
| 1. Application Method  |    |
| 2. Application Period  |    |
| 3. Application via Internet  |    |
| Miscellaneous .....  | 22 |
| 1. Instruction for Application   |    |
| 2. Consultation with the Applicant who Needs Special Consideration for the Entrance Examination<br>and/or Education in the Graduate School   |    |
| 3. Handling of Personal Information  |    |
| 4. Admission Procedure   |    |
| 5. Application for Disclosure of Examination Results   |    |
| 6. Others  |    |
| Application Fees Exemption for Prospective Students to Enter Hiroshima University ....   | 24 |

# Admission Policy

## **1. Admission Policy of Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering (Doctoral Course)**

The Division of Advanced Science and Engineering of the Graduate School of Advanced Science and Engineering seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

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;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

## **2. Admission Policy of each Program [Mathematics Program]**

The Mathematics Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

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;

The will to take the leading role in professional occupations such as researchers, educators, and highly-professional engineers in mathematics areas;

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

Common sense as a member of society and ethics required for researchers.

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

### **[Physics Program]**

The Physics Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

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;

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;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

Curriculum Policies, using oral examination and submitted documents.

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

The Earth and Planetary Systems Science Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

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;

The will to take the leading role in professional occupations such as researchers educators, and highly-professional engineers in earth and planetary science areas;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Chemistry Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in chemistry areas;

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 chemistry as well as a wide range of intelligence; and

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Applied Chemistry Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in applied chemistry areas;

A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues b (s)2.6 (3)-1 (n)o BDC Td[aluideranueof3n ahemicow lehe eneo

motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in chemical engineering areas;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Electrical, Systems, and Control Engineering Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

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;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Mechanical Engineering Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in mechanical engineering areas;

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

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Transportation and Environmental Systems Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

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;

A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to the transportation system engineering and the environmental system engineering as well as a wide range of intelligence; and

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

#### **[Architecture Program]**

The Architecture Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in architecture areas;

A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to architecture as well as a wide range of intelligence; and

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Civil and Environmental Engineering Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role as a high-level engineer or researcher in areas of civil and environmental engineering including disaster prevention and mitigation engineering;

A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to the civil and environmental engineering as well as a wide range of intelligence; and

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

To admit such candidates, the Graduate School of Advanced Science and Engineering evaluates applicants through a comprehensive and multifaceted process, in alignment with its Diploma and Curriculum Policies, using oral examination and submitted documents.

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

The Informatics and Data Science Program seeks students who possess the following aspirations and motivation, and have a solid foundation in relevant subjects:

An ambition for taking the leading role in advanced and prominent academic and inter-disciplinary research;

The will to take the leading role in professional occupations such as researchers and highly-professional engineers in the informatics and data science;

A zeal for establishing the "science for sustainable development" from a multifaceted perspective and for solving regional and international issues by acquiring wide range of academic knowledge and study skills for the academic areas related to the informatics and data science as well as a wide range of intelligence; and



## 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] for April 2025 admission to the Doctoral Course as indicated below.

### April 2025 Admission

| Division                                     | Program   | Capacity | Admission Capacity | Contact<br>Submission Address for Application Documents   |
|--|---|----------|--------------------|---|
| Division of Advanced Science and Engineering | Mathematics Program   | 121      | Several students   | Support Office for the fields of Science<br>739-8526<br>1-3-1 Kagamiyama, Higashi-Hiroshima<br>Tel: 082-424-7309, 4468        |
|  | Physics Program   |          |                    |   |
|  | Earth and Planetary Systems Science Program                     |          |                    |   |
|  | Chemistry Program   |          |                    |   |
|  | Applied Chemistry Program                                       |          |                    | Support Office for the fields of Engineering<br>739-8527<br>1-4-1 Kagamiyama, Higashi-Hiroshima<br>Tel: 082-424-7518, 7519    |
|  | 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 (Applied Chemistry)                            |          |                    |   |
|  | Smart Innovation (Electrical, Systems, and Control Engineering) |          |                    |   |
|  | Quantum Matter Program  |          |                    | Support Office for the fields of Science (AdSM)<br>739-8530<br>1-3-1 Kagamiyama, Higashi-Hiroshima<br>Tel: 082-424-7008, 7009 |
|  |   |          |                    |   |

(Caution)

The selection for April 2025 admission will be suspended for Transdisciplinary Science and Engineering Program (Environmental and Natural Sciences) and Transdisciplinary Science and Engineering Program (Development Science).

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/staff>





### III Outline of Entrance Examination

#### 1. Schedule of the Entrance Examination

| Application Period                                   | Date of the Entrance Examination   | Examination Subject | Examination Result Announcement                    |
|--|--|---------------------|--|
| Monday, December 9, 2024 – Friday, December 13, 2024 | A day between Tuesday, January 14, 2025 and Friday, January 31, 2025, specified by the head of each Program. | Oral Examination    | Planned to be 12:00-, Wednesday, February 19, 2025 |

(Caution)

Specific schedule of the entrance examination will be notified by the respective Programs.

#### 2. Application Eligibility

Refer to the section " Application Eligibility".

#### 3. Application Documents and Selection Process

Refer to the page for each Program listed in the section "V Application Documents and Selection Process" and confirm application 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 " Application Procedure".

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

The Support Office is open from 8:30 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, December 13. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, December 11.

#### 5. Examinee's Number and Printing the Examination Card

After our graduate school has received the application documents and confirmed that the application eligibility has been fulfilled, you will be able to check your examinee's number, the Examination Card and examination guide on the UCARO website (refer to the section " Application Procedure") after 12:00 on December 19, 2024 (planned).

Please be sure to print out the Examination Card from UCARO and bring it on the day of the examination.

#### 6. 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/en/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.)

## IV Application Eligibility

### 1. Application Eligibility

Those who meet or are expected to meet by March 31, 2025 either of the following criteria.

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

|          |                               |   |          |                      |          |        |      |        |      |  |
|----------|-------------------------------|---|----------|----------------------|----------|--------|------|--------|------|--|
| c        | Academic Transcript           | Issued by the president of the university or the dean of the faculty the applicant attended or is attending.<br>The certificate must be the original or the certified photocopy.<br>The uncertified photocopy will not be accepted.   |          |                      |          |        |      |        |      |  |
| d        | Certificate of Graduation     | Issued by the president of the university or the dean of the faculty the applicant attended or is attending.<br>The certificate must be the original or the certified photocopy.<br>The uncertified photocopy will not be accepted.<br>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents: <table><tr><td>Graduate</td><td>Prospective Graduate</td></tr><tr><td>历证书电 备 *</td><td>线验证报 *</td></tr><tr><td>毕业证书</td><td>毕业预 证书</td></tr><tr><td>硕 证书</td><td></td></tr></table><br>*: Obtain the document through "(CHSI)".<br>There should be 15 or more days left until the expiration date of the online verification at the time of its submission.<br><a href="https://www.chsi.com.cn/xlcx/bgys.jsp">https://www.chsi.com.cn/xlcx/bgys.jsp</a> | Graduate | Prospective Graduate | 历证书电 备 * | 线验证报 * | 毕业证书 | 毕业预 证书 | 硕 证书 |  |
| Graduate | Prospective Graduate          |   |          |                      |          |        |      |        |      |  |
| 历证书电 备 * | 线验证报 *                        |   |          |                      |          |        |      |        |      |  |
| 毕业证书     | 毕业预 证书                        |   |          |                      |          |        |      |        |      |  |
| 硕 证书     |                               |   |          |                      |          |        |      |        |      |  |
| e        | Research Achievements         | Use the specified form to prepare.  |          |                      |          |        |      |        |      |  |
| f        | List of Research Achievements | Use the specified form to prepare.  |          |                      |          |        |      |        |      |  |
| g        | Reasons for Application       | Use the specified form to prepare.  |          |                      |          |        |      |        |      |  |
| h        | Research Plan                 | Use the specified form to prepare.  |          |                      |          |        |      |        |      |  |
| i        | Return Envelope               | Use a standard envelope (12cm× 23.5cm in size) and fill out your address and name; affix a 410-yen stamp to the front.  |          |                      |          |        |      |        |      |  |

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

- (2) The results of the preliminary evaluation will be notified to the applicants by Wednesday, December 4, 2024.
- (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 " Application Documents and Selection Process".

## V Application Documents and Selection Process

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

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

| Program  | Category  | Page(s) to be referred |
|--|---|------------------------|
| Mathematics Program  | Science Programs  | Pages 13 to 14         |
| Physics Program  |   |                        |
| Earth and Planetary Systems Science Program                              |   |                        |
| Chemistry Program  |   |                        |
| Applied Chemistry Program  | Engineering Programs & Informatics and Data Science Program | Pages 15 to 16         |
| 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<br>Applied Chemistry                            |   |                        |
| Smart Innovation Program<br>Electrical, Systems, and Control Engineering |   |                        |
| Quantum Matter Program   |   | Pages 17 to 18         |

## **Science Programs**

(Mathematics / Physics / Earth and Planetary Systems Science / 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 “ Programs and Number of Students to be Admitted”. Download the specified form (uaitt.9 (4.1 (r)-1.6 ( m)11.6 (a)Te1 (r)-188 654 1 4TT4ow)6.1 (

given to the applicant. Whether the applicant has the qualities necessary for the Doctoral Program is determined based on the academic transcript of the applicant.

#### Earth and Planetary Systems Science Program

To evaluate whether an applicant can engage in academic activities in accordance with the Curriculum Policy of the course, an oral examination is given to the applicant. The result of the oral examination is evaluated by a grade-based score. Admission to the course is determined by comprehensively evaluating the result of the examination and the academic transcript of the applicant.

#### Chemistry Program

The admission of a foreign applicant is determined by comprehensively evaluating the result of the academic aptitude examination (oral) and the academic transcript of the applicant. The academic aptitude of an applicant is evaluated by a presentation of his/her master's dissertation and an oral examination.

#### (2) Evaluation Criteria

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

#### (3) Date and Time of the Oral Examination

Oral examination will be held during the period described in "1. Schedule of the Entrance Examination" in "Outline of Entrance Examination". Specific schedule of the oral examination will be notified to the applicant by each Program.

# Engineering Programs & Informatics and Data Science Program

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

## 1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section "II Programs and Number of Students to be Admitted". Download the specified forms (4 to 9) from the website of the Graduate School of Advanced Science and Engineering.

| 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 undergraduate school the applicant attended.  |          |                      |                        |                |
| 2                                    | Academic Transcript of the Graduate School                      | Issued by the president of the university or the dean of the graduate school the applicant attended or is attending.   |          |                      |                        |                |
| 3                                    | Certificate of Graduation or Certificate of Expected Graduation | <div>Issued by the president of the university or the dean of the graduate school the applicant attended or is attending. The certificate must indicate that you were conferred a master’s degree.<br/>The applicant who falls under the application eligibility (2) to (6) above must submit the document which proves that the applicant meets the condition specified by the respective items.<br/>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents:</div> <table><tr><th>Graduate</th><th>Prospective graduate</th></tr><tr><td>历证书电 备<br/>毕业证书<br/>硕 证书</td><td>线验证报<br/>毕业预 证书</td></tr></table> <div>*: Obtain the document through " (CHSI)".<br/>There should be 15 or more days left until the expiration date of the online verification at the time of its submission.<br/><a href="https://www.chsi.com.cn/xlcx/bgys.jsp">https://www.chsi.com.cn/xlcx/bgys.jsp</a></div> | Graduate | Prospective graduate | 历证书电 备<br>毕业证书<br>硕 证书 | 线验证报<br>毕业预 证书 |
| Graduate                             | Prospective graduate  |  |          |                      |                        |                |
| 历证书电 备<br>毕业证书<br>硕 证书               | 线验证报<br>毕业预 证书  |  |          |                      |                        |                |
| 4                                    | Letter of Recommendation  | Use the specified form to prepare.<br>Issued by the last academic supervisor or the head of the institution to which the applicant belongs.  |          |                      |                        |                |
| 5                                    | Research Plan   | Use the specified form to prepare.   |          |                      |                        |                |
| 6                                    | Summary of Master's Thesis                                      | Use the specified form to prepare.<br>The applicant who has passed through the master's course must indicate summary of the master's thesis. The applicant who is preparing the master’s thesis must indicate the intermediate report of the master's thesis.  |          |                      |                        |                |
| 7                                    | Research Achievements   | Use the specified form to prepare.   |          |                      |                        |                |
| 8                                    | List of Research Achievements                                   | Use the specified form to prepare and attach copy or abstract of all research achievements listed in this form.  |          |                      |                        |                |
| 9                                    | Personal History  | Only for the applicant has graduated from a foreign university.<br>Use the specified form to prepare.  |          |                      |                        |                |
| 10                                   | Copy of Residence Card  | If your address is written on the back side of the card, make a two-sided copy.  |          |                      |                        |                |

(Caution)

- (1) Attach the English or Japanese translation to the application documents written in the original language other than English or Japanese.
- (2) The applicant who has successfully passed a preliminary evaluation need not submit the documents No.1, 2, 3, 7, 8 and 9 above.

## **2. Selection Process**

### **(1) Basic Policy**

The results of the oral examination (English-language proficiency, knowledge and problem-solving skills in Specialized subject in the area of desired Program, presentation of Master's Thesis (only for the applicant who has passed through the master's course), and questions about Research Achievements and Research Plan) and document screening will be comprehensively evaluated.

### **(2) Evaluation Criteria**

Oral examination    Scale of 1 to 4

Document screening    Scale of 1 to 4

### **(3) Date of Oral Examination**

Oral examination will be held for each program during the period indicated in the “1. Schedule of the Entrance Examination” in the section “    Outline of Entrance Examination”. The date and place of the examination will be notified to the applicant by each Program.



# Quantum Matter Program

## 1. Application Documents

After making the application via internet, submit all the documents listed below at once during the application period to the relevant Support Office indicated in the section “ Programs and Number of Students to be Admitted”. Download the specified forms (5 to 8, and 12) from the web site of the Graduate School of Advanced Science and Engineering.

| Graduate School of Advanced Science and Engineering  |   |   |                      |                      |        |      |      |        |      |  |
|--|---|---|----------------------|----------------------|--------|------|------|--------|------|--|
| No   | Document Name   | Note  |                      |                      |        |      |      |        |      |  |
| 1  | Academic Transcripts of the Undergraduate School                              | Issued by the president of the university or the dean of the undergraduate school the applicant attended.   |                      |                      |        |      |      |        |      |  |
| 2  | Academic Transcripts of the Graduate School                                   | Issued by the president of the university or the dean of the graduate school the applicant attended or is attending.  |                      |                      |        |      |      |        |      |  |
| 3  | Certificate of Graduation or Certificate of Expected Graduation               | Issued by the president of the university or the dean of the graduate school the applicant attended or is attending.<br>If you have completed a Master's course, please make sure that the certificate includes information about your degree.<br>The applicant who graduated or is expected to graduate from a university in China (excluding that in Taiwan, Hong Kong, and Macao) is required to submit the following documents: |                      |                      |        |      |      |        |      |  |
|  |   | <table><tr><th>Graduate</th><th>Prospective Graduate</th></tr><tr><td>历证书电 备</td><td>线验证报</td></tr><tr><td>毕业证书</td><td>毕业预 证书</td></tr><tr><td>硕 证书</td><td></td></tr></table>   | Graduate             | Prospective Graduate | 历证书电 备 | 线验证报 | 毕业证书 | 毕业预 证书 | 硕 证书 |  |
|  |   | Graduate  | Prospective Graduate |                      |        |      |      |        |      |  |
|  |   | 历证书电 备  | 线验证报                 |                      |        |      |      |        |      |  |
| 毕业证书   | 毕业预 证书  |   |                      |                      |        |      |      |        |      |  |
| 硕 证书   |   |   |                      |                      |        |      |      |        |      |  |
| *: Obtain the document through " (CHSI)".<br>There should be 15 or more days left until the expiration date of the online verification at the time of its submission.<br><a href="https://www.chsi.com.cn/xlcx/bgys.jsp">https://www.chsi.com.cn/xlcx/bgys.jsp</a> |   |   |                      |                      |        |      |      |        |      |  |
|  |   |   |                      |                      |        |      |      |        |      |  |
| 4  | One Copy of the master's Thesis   | The applicant who fall under the application eligibility (1)  |                      |                      |        |      |      |        |      |  |
| 5  | Research Plan   | Use the specified form to prepare. (600 words or longer)  |                      |                      |        |      |      |        |      |  |
| 6  | Research Achievements   | Use the specified form to prepare.  |                      |                      |        |      |      |        |      |  |
| 7  | List of Research Achievements   | Use the specified form to prepare.  |                      |                      |        |      |      |        |      |  |
| 8  | Letter of Recommendation  | Use the specified form to prepare.<br>Signed by the applicant's academic supervisor or equivalent in the university which the applicant is currently enrolled in or has graduated from.   |                      |                      |        |      |      |        |      |  |
| 9  | Certificate of English language Proficiency                                   | Score certificate of a language ability examination such as TOEFL® and TOEIC®.  |                      |                      |        |      |      |        |      |  |
| 10   | Certificate of the Graduate Record Examinations (GRE) (voluntarily submitted) | Submit the certificate of GRE, if any.  |                      |                      |        |      |      |        |      |  |
| 11   | A Copy of Residence Card  | If the applicant's address is written on the back side of the card, please make a both sided copies.  |                      |                      |        |      |      |        |      |  |
| 12   | Personal History  | Use the specified form to prepare.  |                      |                      |        |      |      |        |      |  |

(Caution 1)

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

(Caution 2)

The applicant who has successfully passed a preliminary evaluation of the application eligibility need not submit the document No. 1, 2, 3, 6 and 7 above.

## **2. Selection Process**

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

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

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

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

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

Oral examination will be held during the period described in "1. Schedule of the Entrance Examination" in "III. Outline of Entrance Examination". Specific schedule of the oral examination will be notified to the applicant by each Program.

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

The oral examination will be given for areas listed below:

Reason for application

Research area and research plan for the Doctoral Course

Master's thesis

Basic knowledge in the area in which the applicant wants to conduct the research activities

## VI Application Procedure

### 1. Application Method

Apply via internet and submit the application documents.

Input the information regarding the application on the website.

Pay the entrance application fee of 30,000 yen.

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 application 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 , , and listed in the “1. Application Method” during the application period.

**Monday, December 9, 2024 – 17:00, Friday, December 13, 2024**

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, December 13. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, December 11.

### 3. Application via Internet

For inquiries regarding online application system and UCARO website

**Help Desk (Japanese Speaking Only)**

Inquires accepted from 10:00 to 18:00 (Except from December 30 to January 3)

Tel: 03-6634-6494

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

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, Kumano 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 "New member registration" on the UCARO log in screen**

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

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

**Step 3: Enter the Account (Exemption category only)**

The applicant who applies for exemption from the entrance application fee must consult in advance with the respective Support Offices listed in the section " Programs and Number of Students to be Admitted" to obtain the alphanumeric characters of eight or more digits and input them.

#### **Step 4: Input your application data into the online application system**

Follow the instruction shown on the screen to input your name, address, telephone number, email address, etc. accurately.

The applicant can choose the prospective academic supervisors of the respective programs from “List of Academic Supervisors” and input their names from the 1st choice (Required) to 2nd and 3rd choice (Optional) in the column of “Academic Advisor”.

\* Your personal information registered through the online application system will be used for the following purposes.

1. Carry out entrance examinations and screening.
2. Notify and send the screening results.
3. Send documents for enrollment procedures to successful applicants.
4. Send information before and after admission.
5. Create student registration data and Student ID-Cards.
6. Receive application fees.
7. Check the access status to the Service.

In addition, it may be used to create entrance examination statistical data in a form that does not identify individuals.

#### **Step 5: Upload your photo**

Follow the instruction on the screen and upload a digital photo of yourself. (File format: JPEG)

\* The uploaded photo, which will be used for identification at the examination, will be also used for your student ID card after enrollment. Therefore, please be sure to upload your photo that meet the on-screen precautions.

Once uploaded, your photo will not be allowed to be replaced.

A fee of JPY 1,000 will be charged for changing the content of your student ID card (photo and your name) after enrollment.

#### **Step 6: Payment of entrance application fee (JPY 30,000)**

Select the payment method for the application fee from among the following options.

For applications from outside Japan, only credit card payments can be accepted.

1. Credit Card (Available both within and outside Japan)
2. Convenience Store, Banking institution ATM Pay-easy , and Internet banking (NOT available from outside Japan)

(Caution)

In addition to the entrance application fee, applicants need to pay the processing fee for use of the online application system (1,000 yen per application).

MEXT Scholarship students who have applied for (or intend to apply for) extension of scholarship payment period are exempted from the entrance application fee. Those students who are enrolled in the university other than Hiroshima University at the time of application are required to submit the following two documents;

- (1) MEXT Scholarship Certificate
- (2) The document which proves that the applicant has applied for (or intends to apply for) extension of scholarship payment period (must be issued by the university the applicant is enrolled in).

The entrance application fee, once paid, will not be refunded for any reason.

However, in cases (1) and (2) below, the application fee is refundable after deducting the bank transfer fee. Therefore in such cases, please clearly write the "registration number", "name in kana letters", "name", "phone number", "address", "transfer destination information" and "reason for demand of refund" in the prescribed format given from the university and send it to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted" by Friday, February 21, 2025.

The processing fee for use of the online application system will not be repaid for any case.

- (1) If the application documents have not been submitted, or if they have not been accepted
- (2) If duplicate payments of the entrance application fee have been made in error

**Step 7: Initial registration process complete (Your application is NOT completed yet.)**

Write down the application number of six digits shown on the screen. You can also check the number in the registration completion mail.

**Step 8: Deliver or mail the application documents**

Deliver or mail your application documents specified by the Program to the respective Support Offices listed in the section " Programs and Number of Students to be Admitted".

The Support Office is open from 8:30 to 17:00 during the application period (except for Saturday, Sunday and national holidays) 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 Friday, December 13. The documents received after this time shall be accepted only when it is postmarked no later than Wednesday, December 11.

Indicate the phrase "Application Documents for \*\*\* Program in the 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 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/staff>



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 score certificate of English-language proficiency submitted for the application for Quantum Matter Program will be used for the following purposes.
- Entrance examination
  - Statistics and analysis of English-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 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 Offices listed in the section " Programs and Number of Students to be Admitted" to arrange a consultation.

A. Period for the consultation: Monday, November 18 - Friday, November 22, 2024

B. Information to be described in the application

Name & address of the applicant (the phone number must be included.)

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)

Measures to be taken for the entrance examination.

Measures to be taken for education in the Graduate School

Specific measures that were taken in the university from which the applicant has graduated

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 2024. 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 Score | Evaluation for each subject (including the results of the scale assessment) |

- (2) The examination result (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 Offices.

It is also required to submit the Examination Card for identification.

- (4) The "Application for Entrance Examination Result Disclosure" will be accepted during the period from April 1, 2025 to May 30, 2025.

- (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.

