

2019年度

広島大学大学院先端物質科学研究科

(博士課程後期)

学 生 募 集 要 項

10月入学

一般選抜  
社会人特別選抜

Application to Doctoral Program,  
Graduate School of Advanced Sciences of Matter,  
Hiroshima University

October 2019 Enrollment

General Admission  
Special Selection as a Student with Careers

2019年4月  
April 2019

広 島 大 学  
Hiroshima University

## AdSM's Admission Policy

The Graduate School of Advanced Sciences of Matter (AdSM) welcomes students with sufficient fundamental academic knowledge, strong interest in education and research offered by our courses, and high motivation to study:

- 1. Those who are eager to step forward in the new field of integrated science and engineering, and aim at being a researcher or a sophisticated professional engineer in new fields.**
- 2. Those who aim at being a researcher or an engineer in professional fields be they in science or in technology.**
- 3. Those who are eager to learn from a broad range of intellectual fields, regardless of which university or department they are from.**
- 4. Those who can master not only academic fundamentals and applied research, but also practical skills and business sense, and aim at being an entrepreneur.**

## AdSM's Educational and Research Targets

AdSM promotes a new educational and research field by integrating the fields of science and technology. In addition to systematic education, we provide our students with interdisciplinary and comprehensive education and research in order to foster professional engineers and researchers who have a wide range of academic knowledge and practical skills sufficient to play an active role in international society.

### Our Departments' Educational and Research Targets

Quantum Matter	Considering materials to be where various quantum phenomena emerge, we provide education and research on the fundamentals of quantum physics and the application of quantum behavior, and aim at fostering advanced researchers/professional engineers in the field of material science.
Semiconductor Electronics and Integration Science	In order to foster far-sighted researchers and professional engineers, we conduct the world's most advanced research and practical education on nanodevices, nanotechnology, device modeling, and circuits/architectures designs which are the fundamental technologies in this information society.

**The Graduate School of Advanced Sciences of Matter (AdSM), Hiroshima University, is seeking new students for its doctoral program to be enrolled in October 2019.**

## **1. Number of Students to be Admitted and Examination Information**

Department	Number of Students Admitted		Address for submission and Examination location
	General Admission	Special Selection as a Student with Careers	
Quantum Matter	Select few	Select few	<b>【Address for submission】</b> Student Support Office, Graduate School of Advanced Sciences of Matter, Hiroshima University, 1-3-1 Kagamiyama, Higashi-Hiroshima City, 739-8530 Japan
Semiconductor Electronics and Integration Science	Select few	Select few	<b>【Examination location】</b> Graduate School of Advanced Sciences of Matter, Hiroshima University

## **2. Application Qualifications**

In order to be considered for admission, applicants must fall under one of the following selection categories.

### **General Admission**

Applicants must meet one of the following qualifications:

- (1) Those who have obtained a Master's degree or professional degree, or are expected to obtain one on or before September 30, 2019
- (2) Those who have been awarded a Master's degree or a degree equivalent to a professional degree in a foreign country, or are expected to be awarded one on or before September 30, 2019
- (3) Those who have taken a correspondence course from an overseas educational institution in Japan and have been awarded a master's degree or a degree equivalent to a professional degree, or are expected to be awarded one on or before September 30, 2019
- (4) Those who have completed a graduate program of an overseas-based educational institute located in Japan that has been approved by the Minister of Education, Culture, Sports, Science and Technology (MEXT) and have been awarded a Master's degree or a degree equivalent to a professional degree, or are expected to be awarded one on or before September 30, 2019
- (5) Those who have completed the course(s) provided by the United Nations University and received a Degree Certificate equivalent to a Master's degree, or are expected to receive one on or before September 30, 2019
- (6) Those who have completed the curricula of a foreign school, an educational facility as designated in (4), or the United Nations University; passed a test and review as specified in Article 16 Section 2 of the Standards for the Establishment of the Graduate Schools; and are deemed to have academic ability greater than or equal to a Master's degree
- (7) Those who are deemed eligible by MEXT (designated in the Ministry of Education Bulletin No. 118 of September 1, 1989)
  - a. Those who have graduated from a university or college, and engaged in research for at least two years at a university, college or research institution, and are recognized by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's degree from the achievements of research.

- b. Those who have completed 16 years of formal education in a foreign country or completed 16 years of formal education by taking a correspondence course from an overseas educational institution in Japan, and have engaged in research for at least two years at a university, college or research institution, and are recognized by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's degree from the achievements of research.
- (8) Those who are 24 years old or older at the time of September 30, 2019, and recognized in the preliminary selection by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's or professional degree.

<Note> Applicants who satisfy (7) or (8) need to be authorized for qualification prior to application procedures. Refer to "7. Authorization for Qualified Applicants".

### **Special Selection as a Student with Careers**

Applicants must be working in a company, public office or educational organization as an engineer, researcher, teaching staff, etc. at the time of entrance, or have minimum 2 years of working experiences if applicants are not at work now.

In addition, all applicants must meet one of the following qualifications:

- (1) Those who have obtained a Master's degree or professional degree
- (2) Those who have been awarded a Master's degree or a degree equivalent to a professional degree in a foreign country
- (3) Those who have taken a correspondence course from an overseas educational institution in Japan and have been awarded a Master's degree or a degree equivalent to a professional degree
- (4) Those who have completed a graduate program of an overseas-based educational institute located in Japan that has been approved by the Minister of Education, Culture, Sports, Science and Technology (MEXT) and have been awarded a Master's degree or a degree equivalent to a professional degree
- (5) Those who have completed the course(s) provided by the United Nations University and received a Degree Certificate equivalent to a Master's degree
- (6) Those who have completed the curricula of a foreign school, an educational facility as designated in (4), or the United Nations University; passed a test and review as specified in Article 16 Section 2 of the Standards for the Establishment of the Graduate Schools; and are deemed to have academic ability greater than or equal to a Master's degree
- (7) Those who are deemed eligible by MEXT (designated in the Ministry of Education Bulletin No. 118 of September 1, 1989)
  - a. Those who have graduated from a university or college, and engaged in research for at least two years at a university, college or research institution, and are recognized by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's degree from the achievements of research.
  - b. Those who have completed 16 years of formal education in a foreign country or completed 16 years of formal education by taking a correspondence course from an overseas educational institution in Japan, and have engaged in research for at least two years at a university, college or research institution, and are recognized by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's degree from the achievements of research.
- (8) Those who are 24 years old or older at the time of September 30, 2019, and recognized in the preliminary selection by Hiroshima University Graduate School as having equal to or higher academic ability than persons who have a Master's or professional degree.

<Note> Applicants who satisfy (7) or (8) need to be authorized for qualification prior to application procedures. Refer to "7. Authorization for Qualified Applicants".

## **3. Application Procedures**

### (1) Application Period

Application documents will be accepted from Tuesday, July 23, 2019 through Monday, July 29, 2019.

Application documents must be submitted to AdSM Student Support Office from 8:30 to 12:00, and from 13:00 to 17:15 except Saturday, Sunday and a national holiday.  
If sent by mail, the documents must be sent by registered mail to arrive by 17:15, Monday, July 29, 2019.

(2) Application Documents (No.1 ~ No.14)

- \* English or Japanese translation should be attached if the following documents are written in other languages.
- \* The certificates to be submitted must be the originals or certified photocopies. Uncertified photocopies would not be recognized as official certificates.

No.	Name of Documents	Application Documents		Notes
		General Admission	Special Selection as a Student with Careers	
1	Application form, Examination card	<input type="radio"/>	<input type="radio"/>	Use the prescribed forms
2	Resume	<input type="radio"/>	<input type="radio"/>	Required for foreign applicants
3	Academic transcript (Undergraduate) <Note 1>	<input type="radio"/>	<input type="radio"/>	Must be issued by a university or college president or dean
4	Academic transcript (Master's program) <Note 1>	<input type="radio"/>	<input type="radio"/>	Must be issued by a university or college president or dean
5	Certificate of completion, or certificate of expected completion (Master's program) <Note 1>	<input type="radio"/>	<input type="radio"/>	Applicants who have not completed a Master's program must submit an equivalent certificate. If you have completed a Master's program, please make sure that the certificate includes information about your degree. *Applicants who have completed or are expected to complete a Master's program in China (excluding Taiwan, Hong Kong and Macau) need to submit additional documents. Refer to (3) for details.
6	Preferred research subject and plan in the Doctoral program	<input type="radio"/>		Use the prescribed form
7	Master's thesis summary or research report	<input type="radio"/>		Use A4 size paper with approximately 400 Japanese characters or 100 English words

8	Research achievement report		○	Use the prescribed form. Write the summary of your research achievement until the time of application
9	Supplementary documents for “Research Achievement Report”		○	Use the prescribed form. A list and copy of thesis to be attached, if any.
10	Summary of Master’s thesis		○	Use the prescribed form Required for applicants who have completed a Master’s program only.
11	Research proposal		○	Use the prescribed form
12	Application fee Receipt of application fee payment <Note 2>	○	○	30,000 Japanese yen <b>Fill out your name and address on the prescribed payment form</b> and pay the application fee at a bank in Japan (If you want to pay at Japan Post Network (JPN) or Japan Post Banks (JPB), some other procedures will be required. Please show the payment form at a window of JPN or JPB for necessary procedures. You cannot pay from ATMs of each bank, JPN and JPB). A processing fee will be charged, and receipts of payment with a bank stamp dated on and before July 29, 2019 only shall be recognized as valid as an application document. The receipt of bank payment must be attached to the prescribed sheet.
13	Return envelope for sending examination card	○	○	Fill out your name, address, and postal code on an envelope and affix an 82-Japanese yen stamp (12cm wide × 23.5cm high).
14	A copy of resident card	○	○	Required for foreign applicants residing in Japan only. If applicant’s address is written on the back side of the card, please make a both sided copy.

<Note 1> Those who have completed or are expected to complete the AdSM Master’s program are not required to submit certificates 3, 4, and 5.

<Note 2> Those who are expected to complete the Hiroshima University Master’s program in September 2019 are not required to pay the application fee.

<Note 3> Please note that application fees are non-refundable for any reason after the application

forms have been accepted.

However, in the following ① and ② cases, the application fees are refundable after deducting the bank transfer fees. Therefore in such cases, please state the “reason of demand for return”, “name”, “postal code”, “address” and “contact telephone number” in writing (in any format) and send it surely with the attachment of the “proof of payment of the application fee” to the address mentioned below by mail or fax by Friday, February 28th, 2020.

Then, we will send you by mail a “demand for return” form used for demand for the refund of the application fee. Please write the necessary information and put your seal on the form, and send it by mail to the address mentioned below.

- ① If the application documents have not been submitted, or they have not been accepted
- ② If duplicate payments of the application fee have been made by error

Address: 3-2, Kagamiyama 1 Chome, Higashi-Hiroshima, Japan 739-8511

Accounting Group, Hiroshima University (TEL) 082-424-7811 (FAX) 082-424-6962

(3) For Applicants who have completed or are expected to complete a Master’s program in China (excluding Taiwan, Hong Kong and Macau)

If you have completed or are expected to complete a Master’s program in China (excluding Taiwan, Hong Kong and Macau), please obtain the following document by requesting it at “中国高等教育学历证书查询(CHSI)” (<http://www.chsi.com.cn/xlcx/bgys.jsp>), and submit it to us together with “毕业证书 (Certificate of Graduation)” and “硕士学位证书 (Master's Diploma)”.

- Applicants who have completed a Master’s program: Online Verification Report of Higher Education Qualification Certificate (教育部学历证书电子注册备案表)

- Applicants who are expected to complete a Master’s program: Online Verification Report of Student Record (教育部学籍在线验证报告)

Please note that applicants must pay the issuing fee for the Online Verification Report (2 元/ certificate) by themselves. Also be sure that there are 15 or more days left until the expiration date of the online verification at the time of its submission.

(4) Application Method

Applicants must submit all application documents mentioned above (2) during the designated application period. Applications will not be accepted should any application documents be missing.

(5) Prior Consultation Regarding Exams and Learning for Students who Need Special Consideration

Applicants with handicaps and other special considerations for exams and learning, please fill out an application (The style of the application is not specified.) stating the following information, and submit it to the AdSM Student Support Office (Admission Service).

Should the applicant be considered to require a health exam as a result of prior consultation, the exam shall be conducted at Hiroshima University.

a. Consultation Period

Applicants who wish to have their exams in Braille or need other special preparation should have a consultation by Friday, May 24, 2019.

As a general rule, others are asked to have a consultation by Friday, May 31, 2019.

Depending on the details of the consultation, preparations may require substantial time. Therefore, we ask you to make your consultation as early as possible.

b. Application form for prior consultation must contain the following information:

	Contents	Note
①	Name, address, and telephone number	
②	Name of applicant's university or college graduated	
③	Name of preferred Department	
④	Type and degree of handicap	A doctor's statement or a copy of physical disability certificate will be required
⑤	Matters to be considered concerning examinations	
⑥	Matters to be considered concerning learning after admission	
⑦	Measures of consideration taken previously by the school from which the candidate graduated	
⑧	Current situation of daily life	

#### 4. Method of Selection

##### **General Admission**

The results of the academic ability examination (oral examination), and the academic transcript will be evaluated totally to determine successful applicants.

Department	Examination Schedule	Examination Method
Quantum Matter	The examination will be conducted between Tuesday, August 6 and Friday, August 30, 2019.	<ul style="list-style-type: none"> <li>• Oral Examination</li> <li>The oral examination will include questions on applicants' Master's thesis presentation and thesis itself for those who have completed or are expected to complete Master's program, or questions on applicants' research achievement presentation and research achievement itself for others.</li> </ul>
Semiconductor Electronics and Integration Science		

**Examination details about schedule, location, and other matter will be sent to applicants separately by the Dean of each Department.**

##### **Special Selection as a Student with Careers**

The results of the academic ability examination (oral examination), the academic transcript, research achievement report and research proposal will be evaluated totally to determine successful applicants.

Department	Examination Schedule	Examination Method
Quantum Matter	The examination will be conducted between Tuesday, August 6 and Friday, August 30, 2019.	<ul style="list-style-type: none"> <li>• Oral Examination</li> </ul>
Semiconductor Electronics and Integration Science		

**Examination details about schedule, location, and other matter will be sent to applicants separately by the Dean of each Department.**



## 5. Announcement of Admission

### General Admission and Special Selection as a Student with Careers

**13:00 (expected), Tuesday, September 10, 2019**

A list of the ID numbers of accepted applicants will be posted at the entrance of the Graduate School of Advanced Sciences of Matter and notification of admission will also be sent to accepted applicants by mail.

In addition, an announcement will be made on the Graduate School website.

(<https://www.hiroshima-u.ac.jp/en/adsm>)

(No telephone enquiries regarding admission shall be accepted.)

## 6. Fees

Enrollment fee                      282,000 Japanese yen

Tuition fee                            535,800 Japanese yen (one year)    (267,900 Japanese yen for one semester)

- <Note>
- Enrollment fees will not be returned for any reason after payment.
  - Enrollment and tuition fee amounts are shown as of April 2019. Should the amount be revised at the time of or after enrollment, students will be required to pay the revised fee.
  - The AdSM Student Support Office will inform accepted applicants separately of the details of enrollment procedures which are required during the designated period in mid-September 2019. Detailed information on how and when to pay enrollment and tuition fees and our exemption system of these fees will be also informed together with enrollment procedure details.

## 7. Authorization for Qualified Applicants

(1) Applicants who satisfy application qualification (7) or (8) under the selection categories of General Admission and Special Selection as a Student with Careers need to be authorized by AdSM for qualification prior to application procedures. If an applicant needs to be authorized as a qualified applicant, he or she must submit the documents in the table below between Wednesday, May 29, 2019 and Wednesday, June 5 2019 to Admission Service, AdSM Student Support Office. The documents will not be accepted on Saturday, Sunday and a national holiday.

(If sending the documents by mail, use registered mail and write “Application Documents for Preliminary Authorization of Entrance Examination Qualification” in red on the envelope.)

No.	Documents to be Submitted	Notes
1	Application form for preliminary authorization of entrance examination qualification	Use the prescribed form
2	Statement for preliminary authorization of entrance examination qualification (For Japanese Applicant)	Use the prescribed form. Required for Japanese applicants
3	Statement for preliminary authorization of entrance examination qualification (For Foreign Applicant)	Use the prescribed form. Required for foreign applicants
4	Research achievement report	Use the prescribed form Summary of your research achievements

5	Supplementary documents for “Research Achievement Report”	Use the prescribed form. A list and copy of thesis to be attached, if any.
6	Certificate of graduation from the last school attended	Applicants who are graduates or current students of a university in China (excluding Taiwan, Hong Kong and Macau) need to submit additional documents. Refer to (4) for details.
7	Return Envelope	Write your address, name, and postal code and affix 362 Japanese yen worth of stamps on an envelope (12cm wide x 23.5cm high)

(2) Results of application for authorization will be sent to the applicant by Monday, July 22, 2019.

(3) Authorized applicants are not required to submit documents 2, 4, 5, 7, 8, 9 and 10 written in “3. Application Procedures, (2) Application Documents”.

(4) If you are a graduate or a current student of a university in China (excluding Taiwan, Hong Kong and Macau), please obtain the following document by requesting it at “中国高等教育学历证书查询(CHSI)” (<http://www.chsi.com.cn/xlcx/bgys.jsp>), and submit it to us together with “毕业证书(Certificate of Graduation)” and “学士学位证书 (Bachelor)”.

- Graduates: Online Verification Report of Higher Education Qualification Certificate (教育部学历证书电子注册备案表)
- Expected Graduates: Online Verification Report of Student Record (教育部学籍在线验证报告)  
Please note that applicants must pay the issuing fee for the Online Verification Report (2 元/ certificate) by themselves. Also be sure that there are 15 or more days left until the expiration date of the online verification at the time of its submission.

## 8. Extending Study Period System

For students through special selection as a student with careers, AdSM offers the system that a student completes the curricula for graduation over a certain period of time exceeding the original duration of study in a planned manner.

Under this system, all tuition fees of original duration period are divided by years of approved study period and students need to pay divided amount every year.

For more details about this system, please contact with Admission Service, AdSM Student Support Office.

## 9. Notes

**(1) After enrolled in our graduate school, students will pursue research under the supervision of his or her academic advisor. All applicants are required to be given guidance by his or her preferred academic advisor prior to application.**

(2) If an applicant would like to receive the application forms by mail, please send a return envelope (24cm wide × 33.2 cm high) with your postal code, address, and name with 250 Japanese yen

worth of stamps to the AdSM Student Support Office (Admissions Service). Please write “Request for application forms for the Department of Quantum Matter (or Semiconductor Electronics and Integration Science), AdSM Doctoral Program, October 2019 enrollment” in red on the envelope.

- (3) If sending application documents by mail, please use registered mail and write “Application documents for AdSM Doctoral Program” on the envelope.
- (4) Documents and application fees will not be returned for any reason after application.
- (5) Any forgery or falsification of the documents and/or academic fraud would result in cancellation of acceptance even after passing examination or admission.
- (6) If an applicant who was expected to obtain a Master’s degree at the time of application could not obtain before the admission date, he/she would lose the eligibility to enter our graduate school in this session.
- (7) All personal data contained in the application documents, including name, date of birth, gender, and any other personal information, will be used for selection, result notification, and enrollment formalities only. After enrollment, the data will be under the control of Hiroshima University and will be used for student supports, such as application for scholarships and exemption from tuition. It will not be used for any other purposes and will be provided only to the University faculty members concerned.
- (8) In the difficult case of carrying out the entrance examination because of bad weather, epidemic, etc. please make sure to visit the website of Graduate School of AdSM, Hiroshima University.  
(<https://www.hiroshima-u.ac.jp/en/adsm>)  
We will notify you of postponement of the examination, extension of the starting time of the examination and so forth on the website.

- (9) For inquiries, please contact:

Student Support Office  
Graduate School of Advanced Sciences of Matter  
Hiroshima University

Address 1-3-1 Kagamiyama Higashi-Hiroshima, Japan 739-8530  
TEL 082-424-7008,7009 (Inside Japan) +81-82-424-7008,7009 (Outside Japan)  
E-mail [sentan-gaku-sien@office.hiroshima-u.ac.jp](mailto:sentan-gaku-sien@office.hiroshima-u.ac.jp)  
URL <https://www.hiroshima-u.ac.jp/adsm> (Japanese)  
<https://www.hiroshima-u.ac.jp/en/adsm> (English)

\*For telephone inquiries, please dial area code “082” if you are calling from Hiroshima City, Fuchu-cho, Kaita-cho, Kumano-cho, or Saka-cho of Aki-Ward, which have same area code.