

Program in Information and Management Systems
Graduate School of Comprehensive Scientific Research
Prefectural University of Hiroshima (PUH)

Student Application Requirements and Procedures

2019 Academic Year
Fall Admission

Master's Program

Special Selection for the Students
from Partner Universities

March 2019

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2019 Academic Year Fall Admission Student Application Requirements and Procedures

1 Number of Persons to be Accepted

Applicants
Special selection for the students from partner universities
Approx. two persons

2 Application Requirements

Applicants must meet these requirements below.

- Have graduated, or are expected to graduate by September 30, 2019, from a university that has signed an academic exchange agreement with Prefectural University of Hiroshima.
- Are 22 years of age or older by September 24, 2019.
- Have completed, or are expected to complete by September 30, 2019, 16 years of education from elementary school to an institute of higher learning such as a university in a country other than Japan.

3 Schedule (Japan Standard Time)

Application period	June 3 (Mon.) ~ June 17 (Mon.), 2019 (All the application documents should reach us by June 17)
Announcement of the successful applicants	Noon of July 1 (Mon.), 2019
Admission procedures	July 2 (Tue.) ~ July 16 (Tue.), 2019 * Accepted students who have not completed the procedures by the deadline will be considered as having declined the admission.
First day of the fall semester	September 24 (Tue.), 2019

4 Application Procedures


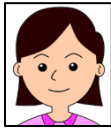
- ① Access the Internet application website.



<http://e-apply.jp/e/puh/>



- ② Register your account to apply.



Press the “Perform Application Procedures”, and submit the following documents.


- **Registration of Personal Information,**
- **Face Photo (JPEG format and max. 4 MB),**
- **Research Plan,**
- **Curriculum Vitae.**

* Face photo taken with a smartphone etc. is also acceptable.
* You will receive a “**Reception Number**” after registering your application.
Make a note of this number for future reference.

<Attention>

- * The photo must have been taken within three months from the day of the application submission.
- * It must be taken from the front, showing yourself from the chest up, bareheaded, against a plain white background, and with your face clearly shown.
- * Specify the following domain if you need to specify a domain to allow for reception of email: (@e-apply.jp)

- ③ Pay the student selection fee.


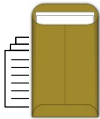


Pay 30,000 yen as the student selection fee by a credit card.
If you are applying for the 2019 MEXT Scholarship (University Recommendation), you can postpone payment.

<Attention>

You must also pay the corresponding service/handling charges when paying the student selection fee.

- ④ Send your application documents by EMS.



Send by EMS


- Enclose the following required documents.
 - **Letter of Recommendation**
 - **Graduation Certificate**
 - **Academic Transcript**
 - **TOEIC/TOEFL Score Certificate**
 - **Records of Communication that can confirm prior consultations with desired academic advisor**
 - **Photocopy of Passport**

*Be sure to include your **Research Plan** and **Curriculum Vitae** if you did not submit them by upload.

<Attention>

Write “Graduate School Application Documents” in red ink on the front of the envelope with your name and return address.

- ⑤ Notification of examinee's number.



Examinee's Number

You will be notified of the “Examinee's number” via registered email.

● **Documents Required for Submission**

Download the PUH form from the following URL.

[Internet Application Web site](#) > [Download Documents](#)

<http://www.pu-hiroshima.ac.jp/site/graduate-selection/fall-admission-englishtrack.html>

Application documents	Description	Uploading data or sending via post	Send original documents
Research Plan (PUH Form)	- Refer to "15 Table of Academic Advisors and Research Fields" for selecting the desired research field and related items. - You can submit it either way; uploading through the PUH application website or via postal service.	○ (Required)	—
Curriculum Vitae (PUH Form)	You can submit it either by uploading it through the PUH application website or by enclosing it in the EMS.	○ (Required)	—
Letter of Recommendation (PUH Form)	Submit the document prepared by your academic advisor, and signed by the president or the dean of your university (graduate university) or educational institution. <u>You must submit the original copy.</u>	×	○ (Required)
Records of Communication	Submit copies of all records of communication (emails and letters) showing the details of prior consultations regarding items such as the research field academic advisor from whom you want to receive guidance and research after admission.	×	○ (Required)
Graduation Certificate	Submit a document prepared by the president or dean of your university (graduate university). * Attach a Japanese translation if the document is in any language other than English. * Consult the PUH Academic Affairs Sect. beforehand if you cannot submit an original copy of the document. * Persons who have graduated from an institute of higher learning in China must authenticate their graduation certificates at the China Higher Education Student Information (中国高等教育学生信息网) website (http://www.chsi.com.cn/xlcx/), and submit a printout of the verification screen (Verification Report of China Higher Education Qualification Certificate (教育部学历证书电子注册备案表)).	×	○ (Required)
Academic Transcript	Submit a document prepared and signed (official seal affixed) by the president or dean of your university (graduate university). * Attach a Japanese translation if the document is in any language other than English.	×	○ (Required)
TOEIC/TOEFL Score Certificate	Submit any of the following certificates (copies not accepted) which are dated after April 1, 2018. (Multiple submissions are accepted.) These certificates will be returned to applicants after screening is completed. • TOEIC® (L&R or S&W) • TOEIC® -IP(L&R or S&W) • TOEFL®-iBT • TOEFL®-PBT • TOEFL®-ITP * No certificate is required for applicants whose mother tongue is English.	×	○ (Required)
Photocopy of Passport	Submit a photocopy of the page of your passport showing your name, date of birth, sex and nationality.	×	○ (Required)

5 Important Information

- A Application periods and office hours are in Japanese Standard Time.
Be sure to provide sufficient allowance for the documents to reach the university within the specified application period when submitting your application.
- B Fill in application documents using a black ink pen or ballpoint pen (not erasable).
- C Changes to application document contents cannot be made after submission.
- D Admission will be revoked if the application requirements are not met.
- E Admission might be revoked if any contents of the application documents are found to contain falsehoods, even after the admission has been approved.
- F The application documents and student selection fee cannot be returned once they have been received. However, the student selection fee can be refunded if no application documents are submitted. In such cases, please inquire with the Academic Affairs Sect. by email in English by March 29 (Fri.), 2019.

6 Prior Consultations

Be sure to consult in advance by email or letter with your desired advisors concerning your research plan. Save records of all communications with academic advisors that are required for submission.

7 Prior Consultations of Physically Challenged and Similar Applicants

Applicants requiring special care in regards to their study, such as having a physical handicap, must consult with the Academic Affairs Sect. in advance by email in English before May 7 (Wed.), 2019.

8 Selection Procedures

(1) Selection evaluation

The selection of applicants will be made based on an overall evaluation of the application documents.

(2) Corresponding weight of items

	For an applicant whose mother tongue is not English,	For an applicant whose mother tongue is English,
Academic Transcript and Letter of Recommendation	30 %	40%
TOEIC/TOEFL Score	20 %	—
Other Documents such as the Research Plan	50 %	60%

9 Announcement of the Successful Applicants

- The examinee's numbers for successful applicants will be displayed on the following bulletin boards of the Prefectural University of Hiroshima.

Hiroshima Campus	Entrance of Educational Research Bldg. 1
Shobara Campus	South side of Bldg. 1 (outside)

- Our university's website (<http://www.pu-hiroshima.ac.jp/>).
 - Letter of Acceptance sent via postal service (Only to the persons who passed)
- * No response can be given to inquiries made by telephone or other means regarding acceptance.

10 Admission Fee

394,800 yen

- For non-native English applicants, the admission fee will be reduced to the amount of 282,000 yen, if at least two of the three requirements shown in the following table are met.
- For native English applicants, the admission fee will be reduced to the amount of 282,000 yen, if the requirements except for English fluency shown in the following table are met.

① English fluency	② College records	③ Research plan evaluation
TOEIC® score \geq 600 or TOEFL®-iBT score \geq 69 or IELTS® score \geq 5.5	GPA \geq 3.0 or the college records are among the top 30%.	\geq 70%

* GPA: Grade Point Average

* A GPA of 4.0 shall be considered full points.

* College records shall be for the top 30% of one's department.

11 Tuition and Other Fees

(1) Tuition

Annual tuition is 535, 800 yen.

If the tuition fee is changed while you are a student, the new fee will be applied from after the time the fee is changed.

(2) Facilities fee

Annual facilities fee is 15,600 yen.

If the facilities fee is changed while you are a student, the new fee will be applied from after the time the fee is changed.

(3) Other fees and expenses

Students are expected to pay other fees and expenses in addition to the above such as fees for personal accident insurance for students pursuing education and research, and liability insurance coupled with PAS, as well as for textbooks and other materials.

12 Scholarships, etc.

(1) Scholarships

Students accepted through this selection are provided with a monthly figure of 30,000 yen under this university's scholarship system. However, this shall be limited to the standard graduation period.

In both the first and second school year, the scholarship will be awarded only once in each October, and the amount for 12 months (30,000 yen / month x 12 months = 360,000 yen) will be transferred to the applicant's bank account.

In principle, the students studying in this special master's program are not allowed to receive more than one scholarship simultaneously. However, "Monbukagakusho Honors Scholarship for Privately Financed International Students" offered by the Japanese Ministry of Education, Culture, Sports, Science, and Technology is an exception.

* Scholarships must be refunded if the student leaves the university before standard graduation.

(2) Lodging

Housing information will be sent to the successful applicants together with the with the acceptance notice.

13 Handling of Personal Information

Personal information (Name, Address, Date of Birth, Other Personal Information, etc.) acquired through student selection will be used only for the student selection, acceptance notice, admission procedure and survey / research on student selection (improvement of entrance exams and applicants' desired trend survey/analysis etc.) .

14 Documents Submission and Inquiries

"Academic Affairs Section, Administrative Affairs Department,
Prefectural University of Hiroshima"

1-1-71 Ujina-Higashi, Minami-ku, Hiroshima 734-8558, Japan

Tel: +81-82-251-9540 Fax: +81-82-251-9545

Email address: puhnyusi@pu-hiroshima.ac.jp

15 Table of Academic Advisors and Research Fields

Please feel free to contact the academic advisors for more information.
Applicants are requested to consult with prospective academic advisors about future research plans before applying.

Fields	Position	Name, Subject (class), Email	Outline of Research	Research Themes
Information Systems	Prof.	Takumi ICHIMURA Computational Intelligence ichimura @pu-hiroshima.ac.jp	Our current research theme is a theoretical study of Deep Learning and its application to real world problems. This research topic is well known to be a heading for real AI. Our proposed model finds self-organized structures of networks during learning and extracts the visible knowledge from the network. Our group is supported for the advancement of core manufacturing technologies by the Japan M.E.T.I. grant. We are also interested in other topics related to computational intelligence.	<ul style="list-style-type: none"> • Adaptive structural learning method of deep learning. • Theoretical study of neural networks and evolutionary computation. • Emotional orientated intelligent interface.
	Prof. ★	Yegui XIAO Adaptive Systems xiao @pu-hiroshima.ac.jp (also affiliated with the Doctoral Program of Biological System Science of PUH)	In digital communications, biomedical engineering, control, power engineering, etc., the analysis, cancellation, and control of various signals and noises are indispensable. Our research effort has been focused on developing cutting-edge low-cost-high-performance algorithms and systems for real-life applications. We are also interested in biometrics and time-series forecasting using adaptive neural networks.	<ul style="list-style-type: none"> • Advanced active noise control systems for large-scale rotating machines. • Adaptive nonlinear filters for both fetal ECG (FECG) extraction and speech enhancement. • Adaptive vibration analysis for monitoring and fault detection. • Time-series analysis and prediction using advanced soft computing techniques.
	Prof.	Chunxiang CHEN Information Networks Chen @pu-hiroshima.ac.jp	Quality of service (QoS) on the Internet is more important than ever due to the adoption of packet switching in the Internet. Our current research interests include performance evaluation of communication networks, multiple-traffic-control on multiple-channel systems and OoS on the Internet.	<ul style="list-style-type: none"> • Error control and quality of service (QoS). • New generation network architecture and traffic engineering. • Network management and operation. • Traffic control on multiple-channel systems.

★ Supervisors of PhD students in Doctoral Program of Biological System Science of PUH.

Fields	Position	Name, Subject (class), Email	Outline of Research	Research Themes
Information Systems	Prof. ★	Hugang HAN Intelligent Information Systems hhan @pu-hiroshima.ac.jp (also affiliated with the Doctoral Program of Biological System Science of PUH)	In order to design a stable fuzzy control system, usually two types of models, i.e., T-S/polynomial fuzzy models, are used to synthesize a controller for the system concerned. Our study focuses on both the fuzzy models with system uncertainty including disturbances, modeling errors, and so on. Recently, we have been making great effort on the so-called uncertainty observer, which is involved in the controller design, trying to improve control performance.	<ul style="list-style-type: none"> • T-S/polynomial fuzzy controller designs with system uncertainty • State/uncertainty observers to be utilized in adaptive fuzzy control systems • Fuzzy modeling approaches employing the approximation property of neural networks.
	Prof.	Tetsuya SHIGEYASU Applied Information Systems sigeyasu @pu-hiroshima.ac.jp	We are developing applied information systems based on wireless computer networks. In particular, our research focuses on network protocols for improving the network performances (throughput, delay, connectivity).	<ul style="list-style-type: none"> • Wireless sensor network • Disaster information collection system • Collision avoidance protocol on wireless LANs
	Assoc. Prof.	Masayuki OKABE Database Engineering Okabe @pu-hiroshima.ac.jp	We study the methodologies for developing intelligent and easy-to-use information systems and services using knowledge discovery techniques such as machine learning, data mining, and information retrieval. Research topics include semi-supervised learning algorithms, active sampling method for training data, outlier detection from stream data and context dependent information retrieval systems. Furthermore, we also study some relevant topics such as UI development for interactive data analysis and the application of human computation.	<ul style="list-style-type: none"> • Semi-Supervised Learning and Clustering • Anomaly Detection from Stream data • Context Dependent Information Retrieval
	Assoc. Prof.	Hisako ORIMOTO Processing of Environmental Information orimoto @pu-hiroshima.ac.jp	In the actual sound environment systems, the observed data often contain several fluctuating noises. Therefore, it is necessary to estimate the specific signal based on the observed data. Our research focuses on the noise cancellation and diagnosis methods of stochastic statistical models based on Bayes' theorem.	<ul style="list-style-type: none"> • Signal processing adapted to higher order correlation information • Noise cancellation method using air- and bone-conducted speech signals • Diagnosis method of machine using sound and vibration information

★ Supervisors of PhD students in Doctoral Program of Biological System Science of PUH.

Fields	Position	Name, Subject (class), Email	Outline of Research	Research Themes
Information and Social Sciences	Prof.	Hansheng WU Systems Engineering and Optimization hansheng @pu-hiroshima.ac.jp (also affiliated with the Doctoral Program of Biological System Science of PUH)	The problem of robust stabilization of uncertain dynamical systems has been one of the main research topics in control theory due to the existence of uncertainties and external disturbances in the practical control systems. Our research interests include optimal control, dynamical games, decentralized control, robust control, adaptive control, and their applications.	<ul style="list-style-type: none"> • Optimal control theory, dynamical game theory, and its applications to current management science and management engineering. • Adaptive robust control of complex dynamical systems with uncertainties and external disturbances. • Modeling and control of environmental dynamical systems. • Decentralized local adaptive robust control of large scale interconnected dynamical systems.
	Prof.	Akimine NISHIKORI Systems Management Optimization nishiki @pu-hiroshima.ac.jp	This study researches mathematical optimization applied to planning, design, and operation on management. The research topics are about simulations by large-scale management software systems of mathematical planning. In particular, algorithms and data structures are studied for knowledge information systems.	<ul style="list-style-type: none"> • Logistics for physical distribution. • Scheduling and production management. • Layout of facilities and components, scheduling tables, and constraint satisfaction by logical expressions. • Selection systems for 21st century COE programs.
	Prof.	Tetsuji TONDA Statistical Modeling ttetsuji @pu-hiroshima.ac.jp	There exist many statistical methods to analyze data. To carry out an effective analysis without loss of information, we select or develop a statistical method based on the properties of data. Our research is focused on developing a statistical method for longitudinal data, spatial data, and exposure data, and their applications to real data.	<ul style="list-style-type: none"> • Statistical inference on time varying coefficients for longitudinal data. • Statistical inference on space varying coefficients for spatial data. • Quantitative evaluation of the effect of radiation/chemical exposure on health status. • Developing a statistical method for spatial survival data and its application to data on A-bomb survivors

Fields	Position	Name, Subject (class), Email	Outline of Research	Research Themes
Information and Social Sciences	Assoc. Prof.	Daisuke HIROTANI Intelligent Production Systems dhiro @pu-hiroshima.ac.jp	Recently, production systems are becoming bigger and more complex. Our research focuses on production systems, and in particular, the Toyota production system (TPS), supply chain management, and cellular manufacturing. In addition, our research focuses on dynamic worker assignment methods for cross-trained workers such as Bucket Brigades production (known as self-balancing production lines).	<ul style="list-style-type: none"> • Kanban control mechanisms for the Toyota production system (TPS) • Inventory control for supply chain management • Cell formation procedures for cellular manufacturing • Dynamic worker assignment methods for cross-trained workers • Optimal worker assignment for bucket brigades production
	Prof.	Kumiko OBARA Management Theory obara @puhiroshima.ac.jp	This study not only focuses on the theory of management and administration simply by putting lights upon the subjects of internal management of corporate organizations, but also involves the strategic management theory in consideration of the CSR management field. Furthermore, it approaches the substance of management, and looks into the social, ethical and moral role and responsibilities of corporate executive managers.	<ul style="list-style-type: none"> • Business administration theory and management philosophy research (management theory of P. F. Drucker and organization-oriented management theory of C. I. Barnard). • Leadership in management innovation and organizational culture changes as a new perspective in organizational change theory. • Manager's guide to globalization: global mindset and global management skill • Competitive strategy as a narrative story
Corporate Management	Assoc. Prof.	Toru HASHIGAMI Financial Accounting Study t-hashigami @pu-hiroshima.ac.jp	This study focuses on some modern topics regarding the financial accounting. The accounting system in Japan is changing dynamically and subject to International Financial Reporting Standards (IFRS) due to the agreement between the Accounting Standards Board of Japan (ASBJ) and the International Accounting Standards Board (IASB).	<ul style="list-style-type: none"> • Study on the introduction of IFRS to Japan. • Study on new concepts of assets, liability, income, and so on. • Study on the importance of the cash flow statements under some situations where companies become insolvent. • Study on some advanced analyses of financial data.

For inquires about the entrance examination:

◇ Program in Information and Management Systems

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