

S H I M A N E
U N I V E R S I T Y

P R O S P E C T U S

2 0 2 3 — 2 0 2 4



Welcome to Shimane University!



Shimane University was established as a national university in 1949 and is celebrating its 75th anniversary this year. Shimane University has continued to expand and currently consists of seven faculties across two campuses. Matsue Campus is home to undergraduate studies including the Faculty of Law and Literature, the Faculty of Education, the Faculty of Human Sciences, the Interdisciplinary Faculty of Science and Engineering, and the Faculty of Life and Environmental Science; in April 2023, Shimane University welcomed the new addition of the Faculty of Materials for Energy. Graduate courses include the Graduate School of Human and Social Sciences, the Graduate School of Education and the Graduate School of Natural Science and Technology. Izumo Campus comprises the Faculty of Medicine and Graduate School of Medical Research.

With the progress of digital transformation (DX) in society and consideration for sustainable societal construction, Shimane University's goal is to enable students to develop international perspectives and their ability to become leaders in each region of the world. While studying here, students are equipped with the ability to cope with diverse problems like those they encounter in modern society. They are also empowered to take advantage of their accumulated knowledge, their cross-cultural awareness, and their technological skills. Furthermore, I believe that an important mission of Shimane University is to contribute to international society through creative research conducted using international standards.

Currently, we have more than 200 international students from various countries, and they are working hard to master their specialized fields. Studying alongside Japanese friends and other international students, these students also learn Japanese traditions and culture. Living in Shimane, students may come to feel a connection with the wonderful nature, history, and culture of Japan. As such, they can devote themselves to studying and learning at Shimane University in a peaceful environment with rich and abundant nature.

I, along with all the staff members and students, sincerely hope that you will choose to come to Shimane University and enjoy your university life here.

A handwritten signature in black ink, appearing to read "Otani Hiroki".

OTANI Hiroki

President of Shimane University

Contents

Features of Shimane	3
Access Map	4
International Exchanges	5
Organization	6
Cutting-Edge Education & Research	7
Campus Life & Student Support	11
Faculty of Law and Literature	15
Faculty of Education	17
Faculty of Human Sciences	19
Faculty of Medicine	21
Interdisciplinary Faculty of Science and Engineering	23
Faculty of Materials for Energy	25
Faculty of Life and Environmental Science	27
Graduate Schools	29
International Student's Voice	32
Support for Doctoral Students	33
Admission Information	34

G

Genuineness

To foster students with initiative who possess a high degree of expertise and human compassion.

O

Openness

To promote a high international standard of research based on unique, local issues.

A

Applicability

To promote social service programs that can solve local problems.

L

Linkage

To promote international exchanges with Asian and other foreign countries.

S

Sustainability

To respect academic freedom and human rights and promote public trust in the university.

Shimane University Principles for SDGs

Shimane University states in its university charter that it will “strive to develop a prosperous society that coexists with nature.” Based on activities such as persistent education, research and medical care, we are working toward the achievement of SDGs through fostering people who contribute to the promotion of regional revitalization, development of a peaceful international society, and realization of an inclusive society. By doing so, Shimane University will contribute to the creation of a sustainable society.

In particular, Shimane University takes advantage of the geographical characteristics of the region. In order to conserve and succeed the environment to future generations, we work closely with the local community, and at the same time, strive for education that raises students’ awareness of SDGs.

HATTORI Yasunao, President of Shimane University
November 14th, 2019



Features of Shimane



Shimane University is located in Shimane Prefecture, an area of Japan well-endowed with nature, including Lake Shinji, UNESCO Global Geopark, the Oki Islands, and Mount Sanbe. In addition, the prefecture has many historical and cultural assets, including Iwami Ginzan Silver Mine, which is a World Heritage Site, Izumo Taisha Grand Shrine, and Matsue Castle,

the last two of which are designated as national treasures. Shimane University is an ideal place to study as students can fully experience the abundant nature and be immersed in an environment where they are able to study the traditions of Japan.

Production and Innovation

Shimane Prefecture is the only prefecture in Japan that still produces a special type of iron that is used as raw material for Japanese swords. Utilizing the foundations of this traditional ironmaking technology, Shimane Prefecture has become a significant production hub for unique steel used in industries such as aerospace. Furthermore, as Matsue City is the birth-

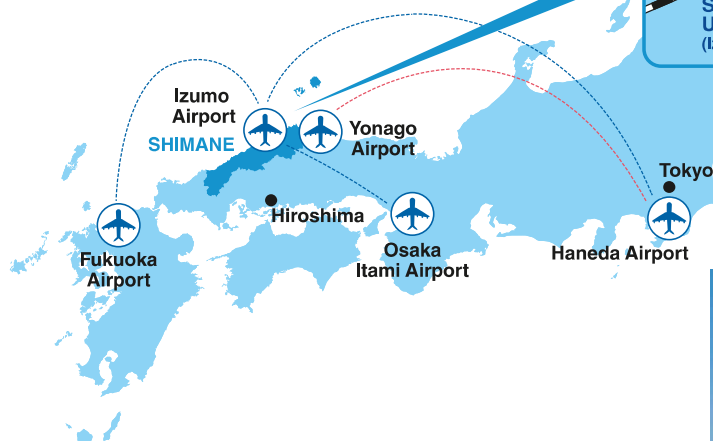
place of the creator of the computer language Ruby, the IT industry is becoming more concentrated, and business exchanges with overseas IT companies are being actively executed. Shimane University is decidedly engaged in research and human resource development in collaboration with such local industries.



Access to Shimane University



Izumo Campus



Matsue Campus

Transportation

Matsue Campus

AIRPLANE



Tokyo (Haneda) → Izumo 1h 25m
 Fukuoka → Izumo 1h 5m
 Osaka (Itami) → Izumo 55m
 Tokyo (Haneda) → Yonago ... 1h 20m

Shuttle Bus from Airport to Matsue Station

Izumo Airport → JR Matsue Station 30m
 Yonago Airport → JR Matsue Station 45m

TRAIN



Tokyo -Okayama- Matsue 6h 10m
 Fukuoka -Okayama- Matsue 4h 30m
 Osaka -Okayama- Matsue 3h 40m

Transportation from JR Matsue Station to Matsue Campus

By local bus → Matsue Campus 15-20m
 By taxi → Matsue Campus 10m

Izumo Campus

AIRPLANE



Tokyo (Haneda) → Izumo 1h 25m
 Fukuoka → Izumo 1h 5m
 Osaka (Itami) → Izumo 55m

Shuttle Bus from Airport to Izumoshi Station

Izumo Airport → JR Izumoshi Station 25m

TRAIN



Tokyo -Okayama- Izumoshi ... 6h 40m
 Fukuoka -Okayama- Izumoshi ... 5h
 Osaka -Okayama- Izumoshi ... 4h 10m

Transportation from JR Izumoshi Station to Izumo campus

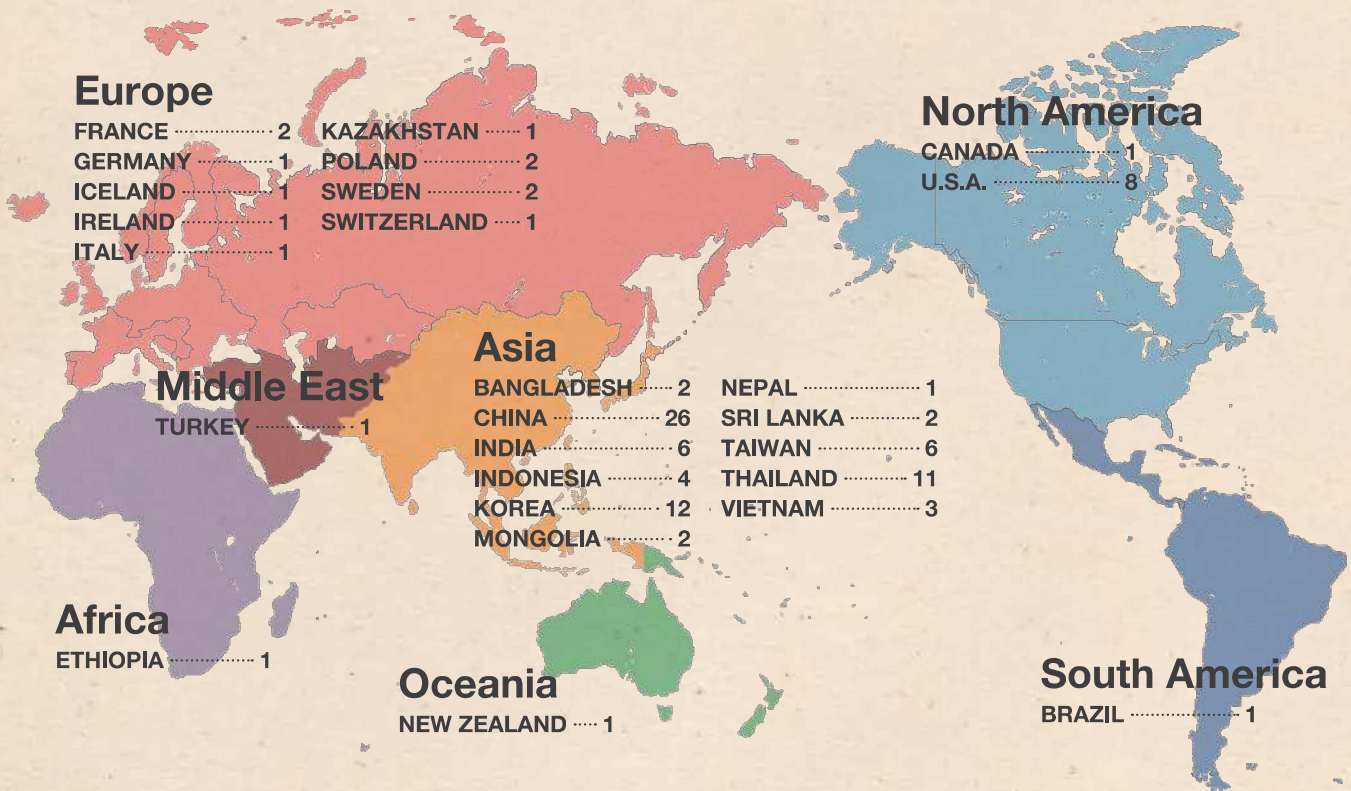
By local bus → Izumo Campus 10m
 By taxi → Izumo Campus 10m

International Exchanges

International Partnerships (Countries and Regions)

As of May 1, 2023

The latest list of our international partnerships can be found at <https://kokusai.shimane-u.ac.jp/english/about/agreement.html>



Number of Enrolled International Students

Country/Region	Law and Literature			Education	Human Sciences			Medicine	Interdisciplinary Faculty of Science&Engineering		Materials for Energy	Life and Environmental Science		Graduate School of Natural Science and Technology		Interdisciplinary Graduate School of Science & Engineering	United Graduate School of Agricultural Sciences Tottori U.	Total
	U	N	G		U	N	G		G	U		N	U	U	N			
Afghanistan															6		1	7
Azerbaijan															1			1
Bangladesh								20							14		6	40
Benin																	1	1
China	7	18	1	3		3	15	11	10				14		12	1	4	99
France																		2
Germany		1																1
India								1							3		1	5
Indonesia								5	1						1		1	8
Korea	3	2							4				4					13
Laos									1									1
Malawi				1														1
Malaysia	2	1			1							1	1		2			26
Mongolia		1				1			1									5
Myanmar				1				4										5
Nepal															3			3
Nigeria				1											1		1	3
Oman															1			1
Poland		2		2														4
Russia				1											1			1
Taiwan		1				1				1								3
Thailand				2				1									1	4
Turkey															1			1
UK		1																1
USA		3											1					4
Viet Nam				1		2									1			4
Total	12	31	1	12	1	8	15	44	35	1	1	19	1	1	45	1	16	244

As of May 1, 2023

* U ---- Undergraduate, N ---- Non degree-seeking Student, G --- Graduate

Organization

Undergraduate Schools

Faculty of Law and Literature

Department of Law and Economics
Department of Socio-Cultural Studies
Department of Language and Culture

Faculty of Education

School Teacher Training Course
Attached Kindergarten
Attached Compulsory Education School

Faculty of Human Sciences

Department of Human Sciences

Faculty of Medicine

School of Medicine
School of Nursing
University Hospital

Interdisciplinary Faculty of Science and Engineering

Department of Applied Physics
Department of Chemistry
Department of Earth Science
Department of Mathematical Sciences
Department of Information Systems Design and Data Science
Department of Mechanical, Electrical and Electronic Engineering
Department of Architectural Design

Faculty of Materials for Energy

Department of Materials for Energy

Faculty of Life and Environmental Sciences

Department of Life Sciences
Department of Agricultural and Forest Sciences
Department of Environmental and Sustainability Science

Graduate Schools

Graduate School of Human and Social Sciences

Division of Social Development and Innovation
Division of Clinical Psychology

Graduate School of Education

Department of Professional School for Teacher Education

Graduate School of Medical Research

Department of Medical Science
Department of Nursing

Graduate School of Natural Science and Technology

Major in Science and Engineering
Major in Science of Environmental Systems
Major in Agricultural and Life Sciences
Major in Science and Engineering for Innovation

Attached Facilities and Institutions

Head Office for Education and Student Support

Higher Education Center
Center for Tourism Education
Student Support Center
Student Accessibility Office

Head Office for Research and Academic Information

Center for the Promotion of Project Research
Estuary Research Center
Interdisciplinary Center for Science Research
General Information Processing Center
Center for Community-Based Healthcare Research and Education
Shimane University Museum ASHIKARU
Center for Natural Disaster Reduction Research and Education
Education and Research Center for Mathematical and Data Science
Center for Vaccines and Therapeutic Antibodies for Emerging Infectious Diseases

Head Office for Promotion of Globalization

International Center
Center for Foreign Language Education
International Joint Research Institute of Shimane University and Ningxia University

Head Office for Regional Collaboration and Innovation

Head Office for Open Innovation Promotion Next Generation Tataro Co-Creation Centre

University Library

Main Library in Matsue
Medical Library in Izumo

Diversity Promotion Office

Harassment Prevention Office

Praxis Center for Clinical Psychology

Health Service Center (Matsue, Izumo)

Undergraduate

Number of International Students

71

Total Number of Students

5,255

Graduate

Number of International Students

107

Total Number of Students

616

Number of international students excludes non degree-seeking students and students from the United Graduate School of Agricultural Sciences, Tottori University
As of May 1, 2023

Cutting-Edge Education & Research

Faculty of Materials for Energy

Shimane University established the Faculty of Materials for Energy in April 2023 to foster and revitalize industries in Shimane Prefecture, particularly in the field of materials, which Shimane Prefecture is known for being strong in. The Next Generation Tataru Co-creation Centre (NEXTA), which is ahead of its predecessors, is promoting world-class research in the field of metallic materials. In collaboration with NEXTA, the Faculty is working to develop highly specialized human resources. Furthermore, compared to other university's materials-related Faculties, the Shimane University Faculty provides a unique education that integrates materials, chemistry, and information by employing a large number of faculty members to teach chemistry and

information.

In order to develop a global mindset, students take classes offered by faculty members at NEXTA as well as overseas partner universities such as the University of Oxford (U.K.), where Director of the NEXTA Professor Roger Reed is affiliated. For details, please see p. 25.



Next Generation Tataru Co-Creation Centre: NEXTA

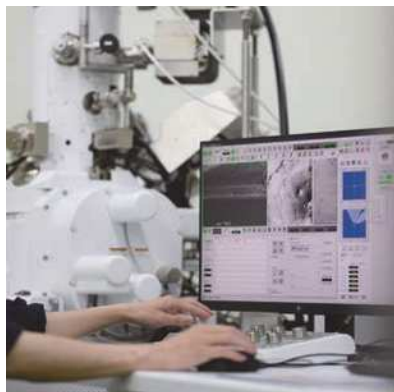
The organization of the Next Generation Tataru Co-Creation Centre; NEXTA was named after “Tataru steel manufacturing” which has been inherited in Shimane prefecture since ancient times has been established in 2019 at Shimane University.

Professor Roger Reed of the University of Oxford was invited to act as a director, and the research and development are being strongly proceeding such as establishing manufacturing technologies/ processing technics of large-sized forging parts using super-heat resistance alloys, as well as the research to establish processing or designing technologies striving to establish a base for the mass production of high-efficiency motor cores using amorphous metals. The companies including SMEs in Shimane prefecture and Shimane

University are working together by developing knowledge synergistically of each other and proceeding with the research and development to contribute to the industrial promotion and creation of employment.

Research system at NEXTA

The researchers who possess high technical capabilities and research skills in Materials engineering are proceeding with the research by connecting mutually their areas of expertise. One of the most important features of NEXTA which is specialized in metal materials research is that covering various areas of expertise such as microscopic structural analysis, mechanical property evaluation or processing, in centring theoretical approach using Physics based-simulation technol-





ogy in one research institute which is pretty rare.

Excellent researcher

“An important first step for the key of metal materials in the next generation”

A research paper written by Professor ARAKAWA Kazuto, Vice Director of NEXTA, was published in *Nature Materials* in January 2020. The journal is one of the most influential publications in the materials field, and the news was reported by the national and international media. In his research, Professor ARAKAWA observed for the first time in the world that defects in a metal at low temperatures behave in a mysterious manner called “quantum diffusion”, by using a transmission electron microscopy that can examine samples at the atomic level. These results can open a new window to improve steel materials with low temperatures, and is expected to be useful for the development of materials that produce a large number of defects, such as materials for fusion reactors, which will be a future energy source.

Cutting-edge equipment that support world-leading research

In order to realize world-leading research, various kinds of equipment that are specialized and very unique have been implemented at NEXTA. The workstation conducts an enormous amount of calculations and simulations based on Physics and Mathematical Science, the state-of-the-art transmission electron microscope which is to observe the deformation process of amorphous foil to be materials for the high-efficiency amorphous motor core, and also the Electro-Thermal Mechanical Testing (ETMT) which can perform in-situ

observation while conducting a tensile test or fatigue test with the test piece that heated with high temperature by electricity in order to observe heat-resistant alloys which can be used as the material for jet engine parts are one of them.

How to participate in the research at NEXTA

The students who studied at the Faculty of Materials for Energy and a certain part of the Interdisciplinary Faculty of Science and Engineering can participate in the research at NEXTA by selecting the research theme related to the metal material field and entering the laboratories of the professors who belong to NEXTA when they are in the second half of the 3rd year. The students will be able to be involved in joint research with companies and other universities. In addition, the selected students will be sent to the University of Oxford and will be able to have some opportunities for research collaboration activities with the researchers at the University of Oxford.



Health Care Products Using Food Biomass



Dr. TSURUNAGA Yoko
Professor, Faculty of Human
Science

There are many rich resources around us that are not utilized. Our research aims to discover the functionality of unutilized resources and maximize them through processing technology.

One current area of research is tea. The tea manufacturing process includes steaming, drying, fermenting, and roasting.

We are investigating the effects

of these processes on the content of functional components and clarifying the optimal processing method for each resource. We have already published various papers in both national and international journals, discussing persimmon leaf tea, bayberry leaf tea, dokudami tea, and basil tea.

A second area of research is high-performance compounded paper. We have discovered unused resources with high deodorizing and antibacterial properties and are developing functional paper that is blended with these resources. Furthermore, we have clarified that the use of chestnut astringent peel in compounded paper creates very strong antioxidant, deodorizing,

and antibacterial properties.

Currently, we are paying particular attention to tannin, a component that is abundant in unutilized resources. Tannins are known to bind strongly to proteins. Our goal is to utilize their binding properties for the development of foods for people who have difficulty swallowing. We are also working to develop products with antiviral, deodorizing, and antibacterial properties.

As these brief examples demonstrate, a wide range of research is being conducted into not only processing foods but also utilizing resources in various fields.



Research with newly developed Bioactive/Biodegradable biomaterials:



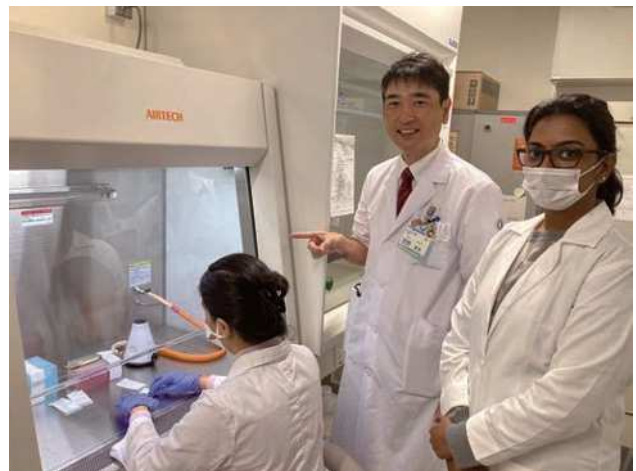
Dr. KANNO Takahiro
Professor & Director,
Department of Oral and
Maxillofacial Surgery,
Faculty of Medicine

The world of medicine and dentistry is constantly evolving. We have come a long way from using conventional methods of bone fixation such as titanium to now introducing synthetic, biomimetic compounds. These materials have superior qualities, as in host tissue interaction and bringing forth faster bone regeneration.

Our department researches biomimetic materials to establish their definitive properties and to analyse their utility for neo bone formation with regard to maxillofacial bones. Through pertinent planning, we have demarcated biomimetic compounds into 4 generations of bioactive/biodegradable materials, currently available for use in human patients. We have validated usefulness of many of these materials through numerous in-vitro and in-vivo studies. Yet, minor disadvantages exist and the search for a more ideal material continues.

Recently, our collaborative efforts have aided the formation of a novel electro spun fibre material. This

newly developed biomaterial has been approved for clinical use, both at Japan and certain foreign countries. We are studying host tissue interaction of the material against another time-tested scaffold (both in-vivo and clinical) and the preliminary analysis showed promising results. We hope to publish the relevant data for surgeons worldwide. Future directive is to incorporate stem cells with the biomimetic scaffold and formulate a therapeutic strategy soon.



Soil Function and Its Wise Use



Dr. MASUNAGA
Tsuguyuki
Professor, Faculty of Life and
Environmental Sciences

In my laboratory, we conduct basic and applied research on soil improvement techniques for enhancing agricultural productivity and environmental restoration, as well as wastewater treatment technology based on soil and field survey in domestic and international fields. The general research themes are:

1. Research on fertilization management and land use methods for sustainable agricultural production.
2. Basic research and development - dissemination of wastewater treatment technology utilizing soil substance adsorption and decomposition functions.

My laboratory accepts many international students, and currently has students from Nigeria, Indonesia, and Afghanistan. We also collaborate with graduated international students to advance a wide range of research abroad. In addition, we actively conduct joint research with private companies and overseas research institutes.

To investigate various domestic and international field environments, extract issues, and study counter-

measures, it is not enough to have knowledge and experience in a specific field alone. To broaden the scope of knowledge and experience, in my laboratory, we aim to develop the ability to observe and analyze phenomena that occur in the field and in daily life from a comprehensive perspective, not only in soil science and agriculture, but also in ecology, environmental engineering, plant nutrition, and other fields by sharing knowledge gained by each member, rather than having students learn unilaterally.



Estuary Research Center (*EsReC*)

The Estuary Research Center (*EsReC*) is the only research center in Japan dedicated to the study of estuaries and brackish waters, promoting basic and applied science on estuaries and coasts, including their watersheds, for sustainable estuaries. Founded in 1992 as the Research Center for Coastal Lagoon Environments (*ReCCLE*), *EsReC* was renamed in 2017 to clarify the research center's goal of solving estuarine environmental and ecological problems.

There are three divisions: Environmental Change Division, which studies paleoenvironmental changes and their causes over the past 10,000 years; Environmental Fluid Dynamics Division, which focuses on hydrodynamics in various water bodies to understand the water environment from not only physical aspects but also biological and chemical aspects; and Aquatic Ecosystem Division, which mainly targets a variety of issues in basic and applied ecology, such as life history traits and population/assemblage dynamics of aquatic organisms.



<https://www.esrec.shimane-u.ac.jp/eng/>



Campus Life & Student Support



Spring Entrance Ceremony



Academic
Calendar

4

5

6

7

8

9

APRIL

MAY

JUNE

JULY

AUGUST

SEPTEMBER

First Semester
begins

Spring Entrance
Ceremony,
Orientation

Final Exams

Summer Vacation

Intensive Seminars

Summer Vacation
ends

First Semester ends

Field Trip for
International
Students

Tutor System for International Students

International students are able to receive support from tutors through the university's tutor system. One tutor is assigned to each international student for the first six months of the student's studies after enrolling in the university or after coming to Japan. Tutors help with various matters such as necessary procedures at the university and at public institutions. Tutors are Japanese students currently enrolled at Shimane University and aid international students in a number of ways: talk on a regular basis, help with studies, research and daily life, and offer support to improve Japanese language skills. Professors and staff at the International Center and International Division assist tutors in carrying out their activities. Through help from tutors, international students are able to hit the ground running with a well-prepared student life in Japan.

Japanese Language and Japanese Culture Studies

Shimane University offers elementary, intermediate and advanced level Japanese language courses and Japanese Culture Studies courses for international students. Elementary courses require a proficiency level of JLPT N5 or higher. The content of the Japanese classes are as follows: composition, reading, listening, speaking, vocabulary and grammar. These classes are officially recognized and provide academic credits upon completion. Furthermore, there are a variety of non-accredited courses available to all international students.





University Festival

Graduation Ceremony

10

11

12

1

2

3

OCTOBER

NOVEMBER

DECEMBER

JANUARY

FEBRUARY

MARCH

Second Semester begins

Autumn Entrance Ceremony, Orientation

University Festival

Shimane University International Party

Winter Vacation

Winter Vacation ends

Classes resume

Final Exams

Ski Trip for International Students

Spring Vacation

Graduation Ceremony

Second Semester ends

Spring Vacation ends

Exchange Events and Club Activities

International students can enrich their study abroad experience in Japan by taking part in field trips sponsored by Shimane University. Students have the chance to visit places that enable them to experience cultural traditions, the beauty of nature and historical heritages, including a historically distinct countryside town in Shimane Prefecture where students can experience traditional Japanese life. All students can also enjoy the annual International Party to share their culture with not only other international students but also many Japanese students and staff.

Furthermore, Shimane University has various athletic, culture and hobby-related teams and clubs that welcome international students. There are approximately one hundred clubs on Matsue Campus, and fifty clubs on Izumo Campus that conduct activities on and off campus. These activities provide the opportunity for students to enhance their bodies and minds, to make friends, and to respect each other in ways that would be impossible inside the classroom. As such, these activities are believed to play an important role in students' lives.



Daily Life of International Students

My horizons are broader in a way that I would have never been able to conceive before.



Sayed Ahmad Faris Bin Sayed Alfeizal

(2nd year, Interdisciplinary Faculty of Science and Engineering)

- From** Malaysia
- Housing** Student Dormitory
- Club** ISF (International Student's Friends)
- Part-time job** Hotel Cleaning / English Teacher

Monthly Living Expenses

Income		Expenses	
Allowance	60,000 yen	Rent	25,000 yen
Scholarship	0 yen	Utilities	20,000 yen
Part-time job	50,000 yen	Food expenses	40,000 yen
Total	110,000 yen	Miscellaneous	20,000 yen
		Total	105,000 yen

My favorite

Hiking Mt. Daisen



During my initial month in Japan, I received a gracious invitation from senior acquaintances to partake in a mountain hike up Mt. Daisen. Amidst a whirlwind of thoughts and emotions at that time, this experience profoundly confronted me with the fragility of life, becoming a pivotal moment of personal transformation. Since that enlightening encounter, I have continuously embarked upon arduous physical and mental challenges, pushing the boundaries of my capabilities to their utmost limits.

Weekly Schedule

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Class1		L		L		P	P
Class2	L		L	L		P	P
Class3	L	L		L		P	P
Class4	L	L					
Class5	L	L	L				
After School					P	P	

■ Lecture
 ■ Part-time job
 ■ Club activity

I am expanding the circle of exchange through languages at the university and in the community.



Zhang Shuyue

(4th year, Faculty of Law and literature)

- From** Jiangsu Province, China
- Housing** Living Alone
- Club** CSA (Chinese Student and Scholar Association of Shimane University)
- Part-time job** Restaurant (twice a week)

Monthly Living Expenses

Income		Expenses	
Allowance	50,000 yen	Rent (Share house)	10,000 yen
Scholarship	0 yen	Utilities	8,000 yen
Part-time job	25,000 yen	Food expenses	25,000 yen
Total	75,000 yen	Miscellaneous	30,000 yen
		Total	73,000 yen

My favorite



Connect in Language

In order to promote international exchanges at Shimane University, I participate as an instructor in Chinese language classes for local children. I experience a fascination with language with the children who attend the classes.

Weekly Schedule

	Mon	Tue	Wed	Thu	Fri	Sat	Sun
Class1	L			L			
Class2	L	L		L	L	P	
Class3	L	L		L	L	P	
Class4	L	L			P	P	C
Class5					P	P	C
After School							

■ Lecture
 ■ Part-time job
 ■ Club activity

Cafeteria

The cafeterias at Matsue Campus and Izumo Campus offer standard menus and seasonal menus, which are popular among the students. In addition to Japanese cuisine, international dishes are available as well.

Furthermore, due to high demand, Matsue Campus' Co-op has developed original, Halal-friendly menus so Muslim students can have a healthy and carefree dining experience.



University Housing

1. Shimane University International House

Matsue Campus

Located 500m away from campus and is for Matsue Campus exchange students.

Izumo Campus

On-campus housing for Izumo Campus international students and researchers.

Izumo Campus Tenjin Branch

Located 2km from Izumo Campus and is for Izumo Campus international students and researchers who have family.



Matsue Campus



Izumo Campus

<https://kokusai.shimane-u.ac.jp/kaigairyugakusei/english/index.html#housing>



2. Student Dormitory

The student dormitory is located a 10-minute walk away from Matsue Campus. Buildings A, B and C each offer slightly different amenities and are conveniently located in the same complex.



Job Hunting Support

Job hunting support for international students is conducted collaboratively by the Career Section of the Higher Education Center and the International Center. International students can gain a greater knowledge of Japan's job-hunting culture through job hunting guidance sessions, individual job counseling, visits to companies, and regularly-held business Japanese language lectures. As a result of these opportunities, international students consistently graduate from the

university and move on to obtain successful careers in Japan.



Shimane University Welcomes and Supports International Students and Researchers!

● International Center

<https://kokusai.shimane-u.ac.jp/english/>



● Student Support Center

<https://gakushien.shimane-u.ac.jp/>



● Health Service Center

Matsue Campus <https://shimane-u.health.wdeco.jp/>

Izumo Campus <https://www.med.shimane-u.ac.jp/health/>



Matsue



Izumo



Faculty of

Law and Literature

The Faculty of Law and Literature covers a wide range of fields in humanities and social sciences. You can study a variety of research fields in small-size classes, where it is easy to ask questions or ask for advice from teachers and classmates. The faculty also plays a close role with communities in the region. Many students actively take part in social research, archaeological research, city planning and NPO activities. We offer graduate programs in humanities and social sciences as well. Each program aims to educate students in developing academic information literacy to play a useful part in today's highly information-oriented society.

We seek students with a strong motivation to study and a clear vision of the future. We are committed to ensuring that our students acquire academic knowledge, develop research skills, and make full use of their knowledge and skills in society.

A candidate must have graduated from high school or have achieved the equivalent of a high school education. International students are also required to have a high level of proficiency in Japanese language (N1 of the Japanese Language Proficiency Test) since education is conducted in Japanese.



 <https://www.hobun.shimane-u.ac.jp/>



Department of Law and Economics

- Law Course
- Economics Course
- Judicial Special Course

The Department of Law and Economics provides lectures about both fields of law and economics. Our educational purpose is to study society from both perspectives.

Regional communities have many problems to be solved; for example, the environment, declining birthrate and aging population, decentralization of power, to name a few. In addition, concerning the life of citizens, new movements in the fields of labor, family, and economy have become big issues.

We expect students to gain the basic knowledge of law and economics, to apply it, and to acquire the ability to analyze situations, formulate policies, and solve problems.



 <https://www.hobun.shimane-u.ac.jp/houkei/>



Department of Socio-Cultural Studies

- Contemporary Society Course
- History and Archaeology Course

This department offers two courses to students who are interested in socio-cultural studies. In the Contemporary Society Course, students can study sociology, geography, and cultural anthropology. This course contributes to developing students' ability to understand and explain the relationship between human beings and community, the structure and functions of community, and characteristics of community culture.

In the History and Archaeology Course, there are five fields: Japanese history, Asian history, European history, contemporary history, and archaeology. Students have the opportunity to study history and archaeology from a broad perspective and deepen their understanding of theoretical studies through field research and excavation.



 <https://www.hobun.shimane-u.ac.jp/shakaibunka/>



Department of Language and Culture

- Japanese Language and Culture Studies
- Chinese Language and Culture Studies
- English Language and Culture Studies
- German Language and Culture Studies
- French Language and Culture Studies
- Philosophy, Art, and Cultural Relations Studies

The department provides six study areas. Five of them explore literature, linguistics, and the colorful history of the individual languages—Japanese, Chinese, English, German and French. Some texts are held in scrolls and others are found in varying forms of manuscripts ranging in time periods from the 16th century to the modern 21st century. In addition, the area of Philosophy, Art and Cultural Relations investigates various cultural phenomena that intertwine and are interpreted through time and intercultural communication. Each area guides stu-



dents to learn research methods and be better thinkers and communicators in the community.

 <https://www.hobun.shimane-u.ac.jp/gengobunka/>





Faculty of Education

Fostering Professional Teachers Through Experience

The Faculty of Education at Shimane University is the only department in the San'in Region that is exclusively dedicated to teacher education. We see ourselves as pioneers of education reformation in the 21st century and take initiatives in solving various educational problems in the local communities. We foster professional teachers with great passion and profound expertise to handle practical problems at school.

Characteristics of the Curriculum and Research

In our teacher training curriculum, a great emphasis is put on hands-on learning with the 1,000-Hour Experiential Program, as well as academic course work that develops basic scholastic abilities. This is based on our belief that prospective teachers must be equipped with practical experience with which they can compare their performance with the educational theories mastered in class.



<https://www.edu.shimane-u.ac.jp/>



1,000-Hour Experiential Program

It is difficult to learn how teachers work with children and parents simply by studying textbooks. The program immerses students in hands-on experiences where they meet and talk with people, especially with children from the communities. This special program consists of two subprograms: the “Basic Experiential Program,” which puts students in direct contact with children in various environments and the “Practical Education Program,” where students practice teaching at school and develop basic skills in clinical psychology, including counseling.



Center for Research on Teacher Education

This center is in charge of managing the teacher training curriculum for students in departments other than education and takes care of their practice teaching and care work experience. It also provides information on teacher recruitment examinations and organizes various seminars targeted at both prospective and in-service teachers. Students can freely use its working space for studying and communicating with others who have the same goal of becoming teachers.



Center for Educational Support

We support the following three programs: the 1,000-Hour Experiential Program, the Profile Sheet System and the Mirai Kyousi Juku Program.

① 1,000-Hour Experiential Program

The 1,000-Hour Experiential Program immerses students in hands-on experiences where they meet and talk with people, especially with children from the communities surrounding Shimane University. This special program consists of two subprograms: the “Basic Experiential Program,” which puts students in direct contact with children in various environments, and the “Practical Education Program,” where students practice teaching at school and develop and enhance basic skills in clinical psychology, including counseling.

② Portfolio System for Students' Study

The system provides both an objective evaluation and a self-assessment of students' accumulated experiences, accompanied by radar charts.

③ Program for Prospective Teachers, Mirai Kyousi Juku Program

This program is designed for students who will take the teacher recruitment examination. We hold seminars on self-analysis, self-appeal, preparation for interviews, and simulated lessons. Through the content of the seminar, the students deepen their thoughts on education and the ideal teacher.

Center for Faculty Development Strategies

This center is the organization responsible for the development of the Faculty of Education through reviewing, evaluating, and improving educational programs. It is aimed at evaluating, devising, and improving all the subjects of the Faculty of Education and its unique educational activities. It also plays the role of utilizing various data for educational improvement.





Faculty of Human Sciences

The Faculty of Human Sciences, founded in 2017, aims for the fundamental understanding of human beings and applies that knowledge to people, particularly in the local community. The mission of the faculty is to construct a society where people live by their own values. The multidisciplinary academic staff tackle issues across various research fields: psychology, social welfare, and health sciences. Our educational programs enable students to comprehensively understand mental, physical, and social aspects of human life. To acquire both practical and scientific attitudes, students are given opportunities to practice in local communities from their first year to their fourth year and integrate these experiences with scientific thoughts and theories. Interactive Presentation Meeting (IPM) is a distinctive class in which the students present and discuss with each other their research and experiences, which exceed their specialties. Through coursework, students are encouraged to develop communication skills and address issues in cooperation with people from various backgrounds. Graduates are expected to be specialists in human services, public services, and business with sufficient knowledge and practical interpersonal skills.



 <https://www.hmn.shimane-u.ac.jp/>



Psychology Course

It is necessary to have both viewpoints of considering of unique individuals and understanding of general principles of the human mind in order to understand humans. Students learn about the human mind and behavior multidirectionally by understanding the human mind and behavior scientifically through experiments and research, and by understanding the human mind practically, sympathetically and objectively. In such regional practice classes, students learn empirically through involvement with local people. Through study, we build the capabilities to understand the human mind and behavior, and support people emotionally.



<https://www.ipc.shimane-u.ac.jp/psych/index.html>



Social Welfare Course

Welfare services preserve human dignity. They have become indispensable parts of our lives. Students in this course are expected to work on their intellectual growth in finding causes and natures of social problems in Japanese society through in-depth analysis with the multiple perspectives on helping people. They are also expected to work hard to develop their capacities as professional social workers who can evaluate clients' individual problems, come up with practical solutions using clients' strengths. The course curriculum is designed to enable students to learn the values, theories and skills of social welfare systematically and to follow the national requirements of certified social workers and psychiatric social workers.



<https://www.hmn.shimane-u.ac.jp/welfare/welfare.html>



Health Sciences Course

The Health Sciences Course has physical, mental and social aspects. In this course, students learn about physical health scientifically. Students learn from teachers in various fields such as sport sciences, occupational health, environmental health, and the healthcare business related to health garments and foods. We foster students who can support people's health and a healthy, long-lived society through various classes and practices in social health facilities.



<https://www.ipc.shimane-u.ac.jp/health-sciences/index.html>





Faculty of Medicine

Basic Concept

Education, research, and medical services are conducted to equip students with a sense of culture and ethics from an international viewpoint. This also cultivates in them the spirit of scientific inquiry, alongside medical and nursing sciences, thus supporting community development and the welfare of humanity.

Educational Goal

The educational goal is to produce doctors and nurses with a sense of culture, ethics, and the spirit of scientific inquiry as well as a humanistic orientation that enables them to maintain the utmost respect for human life and treat modern-day challenges professionally.

Outline

Located in Izumo City, our campus consists of almost 350 academic staff and almost 900 undergraduate students. The Faculty of Medicine has 36 departments in the School of Medicine and 3 departments in the School of Nursing. The undergraduate course for the School of Medicine lasts 6 years and the School of Nursing lasts 4 years.



<https://www.med.shimane-u.ac.jp/english/index.html>



School of Medicine

At the School of Medicine, our focus is the cultivation of excellent medical professionals who will pave the way for the medical studies and medical care of tomorrow. Based on a rich sense of humanity, a wide-ranging education, and high moral values, our students develop cooperation, leadership and decision-making skills, in addition to an international perspective and an inquiring mind that stimulates progression into undiscovered research territories.

Course Outline

From the early stages of their university education, students receive a regional-based education that fosters in them a sense of vocation and a strong interest in regional medical care. Also, by receiving education in medical English and being provided with opportunities to study overseas, they can develop an internationally-framed way of thinking. Students also get to train their inquisitive minds by engaging in research experience. Furthermore, tutorial-style education enables students to develop their problem-solving, information-gathering and cooperation skills by participating in small groups. Prior to the start of clinical training, implementation of CBT (Computer-Based Testing) and OSCE (Objective Structured Clinical Examination) tests take place. During their clinical clerkship, students experience real medical care under the supervision of a supervisory doctor, acquiring basic clinical capabilities. Through this clinical clerkship, which is being utilized at approximately seventy

medical care facilities and hospitals within the prefecture, in addition to the University Hospital, students learn about primary care and regional medicine.



<https://www.med.shimane-u.ac.jp/medicine/>



School of Nursing

At the School of Nursing, our focus is on developing a competency in nursing that forms the foundation for progressing through a lifelong career specializing in the nursing profession. Through the acquisition of skills and knowledge, our students develop the capacity to administer nursing care appropriate to varying health conditions, from health maintenance and promotion, to recovery from illness and end-of-life issues. We endeavor to develop in our students a broad perspective and rich sense of humanity that will enable them to cooperate with other specialists in the fields of health, medicine, and welfare.

Course Outline

The first year of nursing studies involves acquiring the knowledge necessary for functioning as a working adult and creating a foundation of knowledge for their nursing studies. Throughout the first and second years, the students study how to practice nursing through the subjects of human understanding, the ethics of caregiving, basic medical knowledge, and scientific evidence. From the second semester of the second year, the focus becomes more specialized, with studies encompassing the areas of adult nursing care, pediatric/maternity/gerontological nursing care, psychiatric nursing, regional care and home

nursing. In the third and fourth years, students strengthen their nursing skills and knowledge while training in real nursing care.



<https://www.med.shimane-u.ac.jp/kango/>





Interdisciplinary Faculty of Science and Engineering

This faculty features an interdisciplinary education and research system that spans many topics, ranging from fundamental science to engineering and providing solutions to the problems of society today. It consists of seven departments: applied physics, chemistry, earth science, mathematics, information systems design and data science, mechanical, electrical and electronic engineering and architectural design. Approximately 370 undergraduate students enroll each school year. The faculty aims at providing students with the fundamental sense and application capability required to cope with the advanced and ever-changing science and technology. After graduation, many students enter higher graduate courses. Graduates also find employment in a wide variety of companies and government agencies.

 <https://www.riko.shimane-u.ac.jp/eng/>



Department of Applied Physics

● Fundamental Physics ● Electronic Device Engineering

The Department of Applied Physics invites prospective students with vigorous academic interests in theoretical physics, applied physics, electron device engineering, or in the interrelations of these disciplines. Lectures on modern physics and electron device engineering subfields at fundamental to advanced levels are carefully organized within our curriculum. Our fields of research are diverse: superconductor, semiconductor, functional devices, strongly correlated electronic systems, and quantum, computational, and mathematical physics. Individual supervision by our faculty comprised of sixteen active researchers leads to a bachelor's degree upon completion of the thesis.

 <https://www.phys.shimane-u.ac.jp/>



Bilingual Education Course

This course is available for all the departments of the faculty and accepts international students. Since intensive courses for studying Japanese are placed in the first and second years, the students can soon participate in courses taught in Japanese.

<https://www.riko.shimane-u.ac.jp/eng/bilingual.html>



Department of Chemistry

- Basic Chemistry
- Functional Materials Chemistry

The Department of Chemistry includes three educational courses specialized in basic chemistry (aiming to undertake broad studies in chemistry) and functional materials chemistry (aiming to specialize in engineering and applied chemistry). Both courses contain lectures from a wide range of chemistry for their respective educational purposes. In their final year, students execute their own research study under the guidance of professors. In the end, students efficiently gain the skills and knowledge required to complete their educational course and graduate.

 <http://www.chem.shimane-u.ac.jp/>



Department of Mathematical Sciences

Advanced mathematics provides sophisticated tools and a rigorous framework to analyze and describe various real-life phenomena, and seeks the beauty in numbers. Our department offers two majors: in pure mathematics and in applied mathematics. In the first year, students learn various foundational courses. From the second year, they learn advanced courses, including algebra, geometry, topology, real analysis, complex analysis, statistics, and mathematical modeling. By studying advanced mathematics, students develop a variety of skills, such as logical reasoning, creative thinking, problem solving, knowledge of data analysis, statistics, and outstanding presentation skills.

 <https://www.math.shimane-u.ac.jp/eng/>



Department of Mechanical, Electrical and Electronic Engineering

The department offers education and research related to the areas of mechanical engineering, electrical engineering, and electronic engineering. Students study a wide range of basic theories related to the areas of this department during their first three years. During their final year, they research a specific topic under the individual supervision of a faculty member. The department aims to nurture graduates who have prepared for professional engineering in either mechanical engineering or electrical and electronic engineering with fundamental knowledge in both of the fields.

 http://www.ecs.shimane-u.ac.jp/index_e.html



Department of Earth Science

- Geoscience
- Geoenvironmental Science
- Geo-disaster Science

The department offers research and education based on geology and some aspects of engineering geology. The main aims are: (1) to encourage systematic understanding of earth materials and resources; (2) to understand the mutual relationships among humanity, society, and the earth from geological viewpoints; and (3) to establish effective methodology to reduce natural disasters based on a wide knowledge of geological processes and environmental changes.

Our education programs are aimed to train specialists in earth sciences and related fields. Field work and practical skills are essential in our undergraduate courses.

 <https://www.geo.shimane-u.ac.jp/e/>



Department of Information Systems Design and Data Science

- Data Science
- Information Systems Design

Information and computer science and engineering has been indispensable to a wide range of human activities in society. The next stage of the society is said to be a data driven society, where data science is its foundation.

The department aims to provide our students with the knowledge and skills of data science and computer science. The education program consists of two majors: information systems design, and data science. Information systems design includes basics in computer science and engineering along with practical applications. Data science includes statistics and machine learning.

 <https://www.cis.shimane-u.ac.jp/>



Department of Architectural Design

- Building Structure/Environmental Engineering
- Architectural Planning and Design

Our department focuses on teaching and conducting research in three fields (1) architectural planning, (2) building structure and (3) architectural environment. Students are nurtured to comprehensive knowledge within two years before orienting themselves to one of these courses: (A) Building Structure/Environmental Engineering or (B) Architectural Planning and Design. From 3rd year, students have opportunities to choose their major and explore the potential of each field before dedicating their graduation research at the beginning of their 4th year.

 <http://kenchiku-seisan.jp/>





Faculty of

Materials for Energy

The Faculty of Materials for Energy is a completely new Faculty focused on materials to solve the energy problems that are being urgently addressed around the world. Through research and development of new materials that solve energy problems, the Faculty also nurtures innovative human resources who can significantly change society and the future.

Did you know that materials hold the key to solving energy problems? Take airplanes as an example. The creation of energy-efficient aircraft engines depends on the development of materials so engines consume less energy and deliver higher performance. It is no exaggeration to say that the creation of innovation is driven by materials, and research and development of materials has the power to change society significantly.

The Faculty of Materials for Energy is the first Faculty in Japan to offer a unique learning curriculum that applies learning and research in the real world. We look forward to having you join us to take on global issues through materials science.



<https://www.mat.shimane-u.ac.jp/>



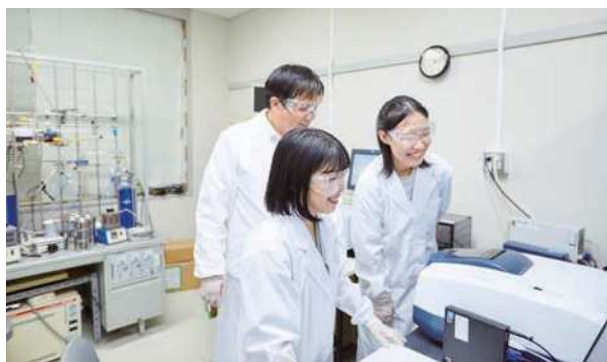
Features of Education at the Department of Materials for Energy, Faculty of Materials for Energy

Character Development

- Highly specialized personnel who have a comprehensive understanding of global energy issues and can contribute to the construction of a sustainable society through the field of materials.
- Human resources who utilize a global perspective by integrating the knowledge and skills of materials engineering and informatics to foster innovation in companies and contribute to the promotion of digitalization and the development of regional industries.

#1 Development of New Materials

The Faculty of Materials for Energy delivers education that develops innovative materials with low environmental impact and high performance. Students are trained to understand energy issues, acquire knowledge and skills in the field of materials engineering, and lead the research and development of new materials.



#2 Materials Informatics

The Faculty provides practical education in using data to conduct predictive analysis and find optimal methods. The use of data utilization techniques can be widely applied in materials engineering and other fields, such as functional prediction and manufacturing optimization.



#3 Global Education

Through collaborations with the University of Oxford (UK) and the University of Helsinki (Finland), students acquire broad perspectives, the educational background, and collaborative skills so that they have the ability to communicate with a diverse range of people and be able to recognize international trends.



#4 Entrepreneurship

Students' education empowers them to take on the challenge of creating new values and implementing them in society to further new industrial development. Students acquire the ability to persistently tackle future issues and creatively find solutions using design skills.



#5 Project-based Education

We provide project-based education that tackles actual corporate issues through team collaboration. Through this education, students will be able to accurately grasp corporate issues, understand how the acquired knowledge and skills can be used in the real world, and be able to put them into practice.





Faculty of

Life and Environmental Sciences



The Faculty of Life and Environmental Sciences was established in 1995 and was reorganized in 2018. Our faculty aims to: 1) understand the mechanisms of biological and ecological systems and develop new technologies related to food and medical sciences; 2) apply scientific outcomes to agriculture and forestry; and 3) contribute to local communities, sustainable production systems and environmental preservation and reclamation efforts. The undergraduate course offers a systematic program consisting of lectures, laboratory and field work, and small-group instruction. Laboratory and field work foster problem-solving skills and increase understanding of lectures. Small-group classes improve mutual understanding between students and mentors while facilitating the development of presentation skills. Graduates have found work in private companies, government offices, and high schools. Students who wish to improve their skills can continue their research at the Graduate School of Natural Science and Technology. The faculty currently consists of three departments and an education and research center.



<https://www.life.shimane-u.ac.jp/eng/>



Department of Life Sciences

The Department of Life Sciences aims to foster a fundamental understanding of biology, ecology and life sciences, as well as skills in the fields of drug design, food, medical and agricultural sciences. For second-year students, more specialized courses are offered. The Cell Biology and the Aquatic Biology and Biodiversity Courses offer curricula oriented towards biology and ecology, whereas the Biochemistry and Life Sciences Course and Food and Life Sciences Course offer curricula oriented towards chemistry and biotechnology. In the second half of the third year, students are assigned to laboratories and supervised by professors for their graduation thesis research.



https://www.life.shimane-u.ac.jp/eng/department/life_sciences.html



Department of Agricultural and Forest Sciences

While providing a scientific foundation for understanding agriculture and forestry, this department also aims to teach these principles in a broader community context. From the second year, students can hone more specialized skills in the following four courses: the Crop and Livestock Production Course focuses on developments in agricultural technology in crop and livestock production and is based on knowledge of ecosystems, physiology, genetics and soil science. The Horticulture and Plant Science Course focuses on physiology, biotechnology, and genetics-based horticultural plant production, breeding, post-harvest management and utilization. The Agricultural Economics Course covers a wide range of subjects from farm management, marketing, to the development of rural



communities. The Forestry Course provides a wide range of experiences and knowledge in the areas of silviculture, forest management, wood production, informatics and renewable energy.



https://www.life.shimane-u.ac.jp/eng/department/agricultural_and_forest_sciences.html



Department of Environmental and Sustainability Sciences

The philosophy of the Department of Environmental and Sustainability Sciences is the establishment of a sustainable and harmonized bond between the environment and human society. In order to realize this idea, our department provides an attractive curriculum to develop and apply advanced knowledge of soil, water, resources and environmental organisms. Students in our department are expected to become pioneers in the sustainable management of both natural and urban environments.



https://www.life.shimane-u.ac.jp/eng/department/environmental_and_sustainability_sciences.html



Education and Research Center for Biological Resources

Forests, agricultural land and marine areas constitute a natural landscape for human life and supply diverse and rich biological products. The Education and Research Center for Biological Resources has a policy to contribute to science and social education from the point of view that these diverse environments are connected as an integrated system.

The center consists of three sections at different sites: Forest Science (in Sanbe and Hikimi), Agricultural Science (in Honjo and Jinzai), and Marine Biological Science (on Oki Islands). The center offers lectures on the interface between human activities and natural environments and also on the biological connections between forests, agricultural land and marine areas. The lectures and programs are open to students



from every course. The center aims to contribute to our understanding of biodiversity, ecosystems and wildlife mechanisms through the experiences and activities at the field sites.



<http://www.ipc.shimane-u.ac.jp/ercbr/index-english.html>





Graduate Schools

Graduate School of Human and Social Sciences

- Division of Social Development and Innovation
 - Law and Politics
 - Regional Economics
 - Humanities and Social Sciences
 - Health and Behavioral Sciences
- Division of Clinical Psychology

The Graduate School of Human and Social Sciences has two divisions. The objective of the Division of Social Development and Innovation is to educate students so that they can deepen their specialty in each field concerning human and social problems of contemporary society, approach problems from both human and social sides, tackle problems from a wide interdisciplinary human view point, social and natural sciences, and lead movement to create a futuristic society in which diverse people can respectfully live together in a world of their own. This division consists of four specialization areas. Assignment to a specialization area is done immediately after admission based on research-planning.

The objective of the Division of Clinical Psychology is to educate students so that they can accomplish various tasks: (1) become qualified as certified public psychologists and clinical psychologists; (2) acquire the talent to work as



specialist like counselors based on their ability in assessment, counseling and community care with a high level of skill in clinical psychology; (3) tackle clinical-psychological problems based on a wide interdisciplinary viewpoint; and (4) lead movement to create a futuristic society in which diverse people can respectfully live together in a world of their own.



<https://www.hmnsoc.shimane-u.ac.jp/>



Graduate School of Education

- Department of Professional School for Teacher Education

The Professional School for Teacher Education aims to nurture teaching professionals for elementary school to high school levels to work with contemporary educational issues in society, both at the global and local level. In particular, we focus on educational issues in our region, such as small-sized schools and rural aspects with rich natural resources and active cooperation from local communities. This two-year program values theory as well as practical learning, to develop knowledge and competencies to become school leaders.

The three pillars of our curriculum are school management in the changing society, collaborating with other stakeholders in the community, class design instructions with theory and curriculum development, and support for children with various backgrounds, through differentiated instructions. Teaching practice and research on-site at school are mandatory.

Our students are composed of current teachers assigned from the Shimane and Tottori Prefectural Board of Education, and new college graduates. Graduate students' research projects are based on current issues in each school and area. These projects have contributed to solving problems and

improving the situation in the class, school and communities. A Japanese teaching certificate is required for admission and international collaborative research has been developed. Certified international students in other programs are able to audit courses. It is our mission to work with teachers and teachers-to-be to enrich our children's lives and learning.



<https://www.edu.shimane-u.ac.jp/daigakuin/index.html>



Graduate School of Medical Research

- Department of Medical Science
- Department of Nursing

Master's Course (Medical Science)

The purpose of this course is to educate bachelors of non-medical courses about medicine from the perspective of comprehensive and academic science. Our basic policy is to utilize the research and educational outcomes achieved at the university and in the community to benefit the education and training of our students.

Doctoral Course (Medical Science)

Through the Doctoral Course in Medical Science, students are expected to develop a high level of research competency, abundant knowledge, and a passion for human nature required to lead medical professionals in addition to the skills and expertise required of clinicians.

Master's Course (Nursing)

The course objective is to cultivate individuals with a rich sense of humanity coupled with a broad perspective and to possess excellent practical nursing skills, creative research capabilities, and the ability to carry out research in nursing studies from a scientific point of view.



Doctoral Course (Nursing)

The course objective is to develop educational researchers who will benefit an ageing society where people can lead enriching lives, by working towards the improvement of nursing care and by conducting high-standard creative research in nursing for the study of gerontology.



<https://www.med.shimane-u.ac.jp/english/graduate/>



Graduate School of Natural Science and Technology (Master's degree course)

- Major in Science and Engineering
- Major in Science of Environmental Systems
- Major in Agricultural and Life Sciences

The Graduate School of Natural Science and Technology, established in 2018, offers Master's degree programs related to these majors: Science and Engineering, Science of Environmental Systems, and Agricultural and Life Sciences. In addition, each major is connected to a department in the undergraduate school, which enables continuous education from the undergraduate level.

The graduate school undertakes education and research in a wide range of academic fields including science, engineering and agriculture. The students develop scientific knowledge, presentation skills, global insights, and the ability to formulate new ideas. The graduates become highly creative innovators, engineers, and researchers who will contribute to the development of science, technology and the creation of a sustainable society.

In the Science and Engineering Major, students acquire basic knowledge of mathematics, physics, and informatics. Based on this knowledge, they will contribute to the development of mathematical science, physics, information science, mechanical engineering, electrical and electronic engineering, and materials engineering as advanced engineers and researchers with international viewpoints.

In the Science of Environmental Systems Major, students acquire basic knowledge in earth science, environmental and



sustainability sciences, chemistry, and architecture. Based on this knowledge, they will contribute to the creation of rich and environmentally friendly society as advanced engineers and researchers with practical skills, creativity, and international viewpoints.

In the Agricultural and Life Sciences Major, students acquire basic knowledge of agriculture and life sciences. Based on this knowledge, they will contribute to the development of life science and utilization of agricultural and forest products as advanced engineers and researchers with self-reliant problem-solving abilities, rich humanity, and international viewpoints.



<https://www.natural.shimane-u.ac.jp/english/>



Graduate School of Natural Science and Technology (Doctoral degree course)

- Major in Science and Engineering for Innovation

A new doctoral degree program in the Graduate School of Natural Science and Technology has recently been established as part of the restructuring of the Interdisciplinary Graduate School of Science and Engineering.

Our doctoral program promotes interdisciplinary education among research fields to develop researchers who can open up new fields with a broad perspective. Our doctoral degree program is organized into two courses: the Science and Engineering Course, and the Science of Natural Environment Systems Course. The Science and Engineering course promotes research and education in mathematics, informatics, physics, materials engineering, mechanical engineering, and electrical and electronic engineering.

The Science of Natural Environment Systems Course promotes research and education in a wide range of topics, from studying the earth itself to the lives which form in natural environment systems.

The doctoral degree program of the Graduate School of Natural Science and Technology offers three specialist programs: (1) the Materials Engineering Special Program, for students involved in the research of advanced materials in the Next Generation Tataro Co-Creation Centre of Shimane University; (2) the Collaborative Program of Medicine, Science,



Engineering and Agriculture, for students with backgrounds in science, engineering, or agriculture, who have an interest in the medical applications of physics, chemistry, biology, mathematics, informatics, agriculture or various fields of engineering; and (3) the Special Program in Earth Science and Geo-environmental Science, for students from Asia and the trans-Pacific, which provides vigorous leading-edge academic training in fields including geoscience, development and conservation of earth resources, solutions for environmental problems, prediction and prevention of natural disasters, and the sustainable long-term evolution of our society.



<https://www.natural.shimane-u.ac.jp/english/>



International Student's Voice



Andi Masdipa
Department Ophthalmology,
Graduate school of Medicine

In April 2020, I was accepted into the Doctoral Program at Shimane University, I was very happy and wanted to immediately experience doing research with various modern and sophisticated laboratory equipment. However, due to the pandemic, I started my research after waiting 2 years in my country. At the beginning of my third year, I was able to come to Japan and start my research. The theme of my research was to test and explore the pressure characteristics of glaucoma drainage devices, which was very interesting because I discussed medical and physical science in this research. Although I encountered some obstacles, with the guidance and encouragement of my supervisor, I was able to complete my first research project and the results were published at the beginning of the fourth academic year.

I really enjoy living here, the atmosphere is very calm and the people are friendly. The academic affairs, international

exchange and members of my department are very friendly and helpful. I live in the university dormitory, and it is very close to the campus. Living with a family in a foreign country initially made me worried about some things but after living it, the worries turned into happiness.

Apart from my studies, I enjoy participating in social activities with the local community in Izumo, which often helps international students and teaches Japanese culture. In addition, my sensei made me a part of the Goalball team of Shimane University Hospital, which was very interesting because I had the opportunity to play sports with people with visual impairments and blindness.



Moniruzzaman Mohammad
Graduate School of Natural Science
and Technology

My research activities and university life.

I am a third-year PhD student at the Graduate School of Natural Science and Technology at Shimane University, originally from Bangladesh. I chose this institution for its established research excellence and cutting-edge facilities, which have provided me with a unique and valuable experience that has enhanced my career prospects.

Throughout my PhD journey, my research activities and university life have been instrumental in shaping my growth. These activities include conducting thorough literature reviews, receiving feedback from my supervisor, designing and executing experiments, analyzing data, and synthesizing findings. In the past two years, I have attended various academic events such as conferences, seminars, symposia, and internships. The university's academic community, comprised of passionate students and faculty, has played a

vital role in my development. This community provides a supportive and stimulating atmosphere that encourages the exploration of interests, discussion, and mutual learning. Furthermore, I have had the opportunity to attend various cultural exchange programs offered by the university, complemented by local clubs and communities, which provide an excellent platform for exchanging ideas and culture.

With utmost appreciation, I extend my gratitude to the University for introducing the S-SPRING fellowship program, which has been an invaluable support system providing me with financial and research assistance, enabling me to wholeheartedly devote myself to academic pursuits.

In conclusion, my pursuit of a PhD at Shimane University has been a transformative experience, both personally and professionally. The amalgamation of research activities and university life has provided me with a fulfilling and enriching experience that has challenged me to stretch the limits of my knowledge and understanding. With the necessary resources and tools, I am confident that I will create a lasting impact in my field.



International Student's Voice



Al Busaidi Sara Saif
Mohammed Saud
Graduate School of Natural Science
and Technology

I am a master student studying Geosciences with a focus on geochemistry. Currently, I am working on a research project about some of the millions of years old igneous rocks in Shimane, those that for example come out of volcanoes. The research includes days of fieldwork for collecting rocks, which are then brought to the lab for further studies. I check their minerals under the microscope and work on other techniques to analyze their chemical composition. I hope from this work to unravel the story behind the formation of these rocks.

Life as a student at Shimane University has given me the most unique experiences I have ever had. Since I am only staying here for two years, I want to make the most of my time, so I involve myself in several club activities. I find pleasure in participating in events that aims to make interactions between international and Japanese students where we share each other's cultures. Through these events, I have met great people that made me enjoy college life even more. With

them, I enjoy playing some sports like volleyball, badminton, and snowboarding. Also, from time to time, we enjoy going out immersing ourselves in the surrounding beauty of Shimane's nature, as it helps us recharging and keeps the ongoing aspiration for our academic work.

All these opportunities I'm having made it an absolute treat studying at Shimane University. I want to express my sincere gratitude to my supervisor and lab mates who are helping me making a progress in my research work, and to my friends that are making my experience here a lifetime memory.



Support for Doctoral Students

Shimane University provides financial support for livelihood and research to the excellent doctoral graduate students (As of 2023).

This project named "SU Capacity Building Project Towards a Sustainable Society (S-SPRING)" aims to resolve various issues of the regions, Japan, and the world, and to foster doctoral students who will lead a future knowledge-based society towards the development of a sustainable society in Japan.

This project provides financial support to such excellent students, and provides courses for them to acquire the skills required by companies, etc., thereby creating an environment in which they can devote themselves to their research without worrying about employment.

It also provides opportunities to enhance students' research skills under the guidance of outstanding mentors in Japan and abroad, and to interact with doctoral students of different research fields, thereby encouraging the creation of interdisciplinary research and broad perspectives towards a sustainable society.

In addition to the S-SPRING, we also offer other programs and scholarships (provided by the university and other foundation) to support international students. The content changes from each year, so please check the university website for details.



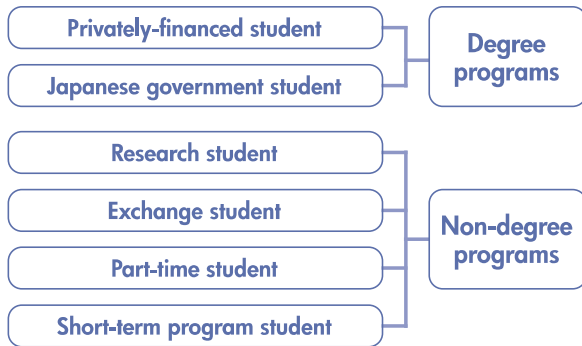
S-SPRING :
https://www.shimane-u.ac.jp/education/school_info/dr_aid/



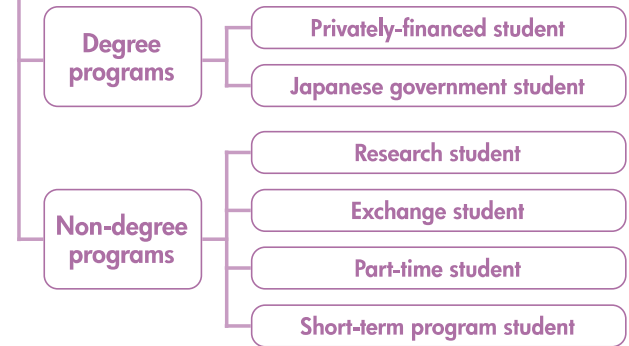
Admission Information

Study at Shimane University

Undergraduate



Graduate School



Admission Schedule and Other Programs

https://www.shimane-u.ac.jp/en/study/future_students/admission_information.html



Facilities, Research Institutes & Organizations

Facilities

University Library at Matsue and Izumo

<https://www.lib.shimane-u.ac.jp/english/>



Shimane University Hospital (Izumo)

<https://www.med.shimane-u.ac.jp/hospital/English/>



Research Institutes

International Joint Research Institute of Shimane University and Ningxia University

<http://www.ningxia.shimane-u.ac.jp/index.html>



Estuary Research Center (EsRec)

<https://www.esrec.shimane-u.ac.jp/eng/>



Center for Natural Disaster Reduction Research and Education

<https://ndrre.shimane-u.ac.jp/english.html>



Head Office for Regional Collaboration and Innovation

<https://www.reg-collab.shimane-u.ac.jp/>



Next Generation Tatara Co-Creation Centre

<https://tatara.shimane-u.ac.jp/en/>



Centers and Organizations

Health Service Center

<https://shimane-u.health.wdeco.jp/>

<https://www.med.shimane-u.ac.jp/health/>



Matsue Campus



Izumo Campus

Student Support Center

<http://gakushien.shimane-u.ac.jp/>



International Center

<https://kokusai.shimane-u.ac.jp/english/>



Center for Foreign Language Education

<https://cflc.shimane-u.ac.jp/english/>





SHIMANE UNIVERSITY



Shimane University

1060 Nishikawatsu-cho, Matsue,
Shimane Pref., 690-8504 Japan
URL:<http://www.shimane-u.ac.jp/en/>



International Center

URL:<https://kokusai.shimane-u.ac.jp/english/>

© Shimane University