

**Okinawa International Marine Science Program
Graduate School of Engineering and Science
University of the Ryukyus**

(Master's and Doctoral Programs)

**Guide for the Application of Non-Scholarship Program
(Academic Year : 2019)**

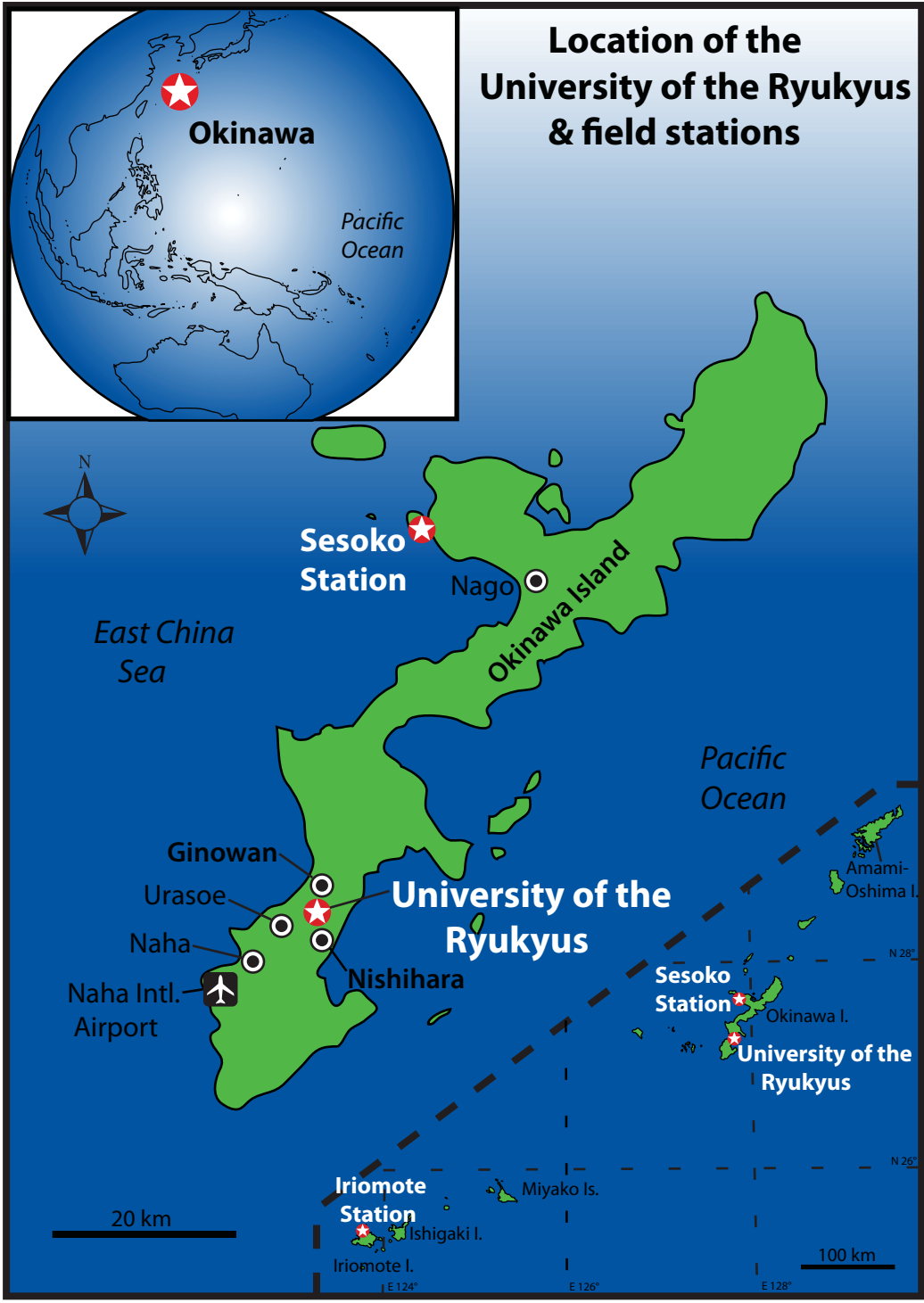
Application Deadline: December 10, 2018

Academic Year Starts: April 1, 2019

琉球大学大学院亜熱帯海洋科学国際プログラム
理工学研究科博士前・後期課程（私費留学生）

**Graduate School of Engineering and Science
University of the Ryukyus**

Website: <http://www.sci.u-ryukyu.ac.jp/index.php?id=85>



Welcome to the Graduate School of Engineering and Science, University of the Ryukyus, Okinawa, Japan

November 1, 2018

Hello to all applicants! I am pleased to announce that we are recruiting students from all over the world into the Graduate School of Engineering and Science, University of the Ryukyus, Okinawa, Japan.

Our graduate school offers two programs; the “Okinawa International Marine Science Program” in the Faculty of Science and the “Smart City Human Resources Development Program” in the Faculty of Engineering, here in beautiful Okinawa.

We, the Faculty of Science, are offering Master’s and Doctoral courses in the Okinawa International Marine Science Program. It is our goal to foster world-class scientists, capable of solving current world problems on the basis of research carried out at University of the Ryukyus.

This is an excellent opportunity to study and have many exciting experiences on our beautiful island, Okinawa. We look forward to receiving your application for our programs.

I wish you all the best.

Sincerely,



Yasunori Arizumi

Dean, Graduate School of Engineering and Science

University of the Ryukyus

Okinawa, Japan

PROFILE OF THE UNIVERSITY OF THE RYUKYUS

As the first public institution for higher education to be established on Okinawa, the University of the Ryukyus was formally opened on the ancient site of Shuri Castle on May 22, 1950, by the United States Civil Administration of the Ryukyus. When Okinawa was returned to Japan, in May 1972, it became a national university.

The University consists of seven faculties: Humanities and Social Science, Global and Regional Studies, Education, Science, Medicine, Engineering, and Agriculture; Graduate Schools (Humanities and Social Sciences, Education, Medicine, Health Sciences, Engineering and Science, Agriculture and Law), the United Graduate School of Agricultural Sciences, Kagoshima University, the Non-Degree Graduate Program for Special-Needs Education Program, the Library and the College Elementary and Junior High Schools. It also includes facilities such as the University Hospital, the Tropical Biosphere Research Center (on Iriomote, Sesoko and Nishihara), the Agricultural Experiment Station and the Experimental Forest (in the northern part of Okinawa Island), the Radioisotope Laboratory, the Center of Molecular Biosciences, and the Foreign Language Laboratory. The facilities at University offer unique opportunities for advanced research and training, and the Computing and Networking Center provides various support for academic, administrative, and instructional university programs.

The Faculty of Science is composed of three departments: the Department of Mathematical Sciences, the Department of Physics and Earth Sciences, and the Department of Chemistry, Biology, and Marine Science. These departments offer both undergraduate and graduate programs leading to a Bachelor of Science and a Master of Science degree in five majors (Mathematics, Physics, Earth Sciences, Chemistry and Biology). A doctoral program in Marine and Environmental Sciences was also established in April 1998. In addition to its graduate program, the Faculty of Science accepts international students in its regular undergraduate and graduate programs, which are given in the Japanese language. Eligible students attending these regular programs may also qualify for a scholarship from the Ministry of Education, Culture, Sports, Science and Technology (Monbukagakusho).

Currently, there are 296 students from 48 countries studying at the University of the Ryukyus, and we have concluded academic exchange agreements with various universities including:

Michigan State University	University of International Business and Economics
University of Guam	Keimyung University
University of Hawaii	Jeju National University
University of California, Davis	Sunchon National University
University of Nevada, Reno	Yonsei University
<u>Fort Lewis College</u> (U.S.A.)	University of Seoul
University of Canberra	Mokpo National University
James Cook University (Australia)	Hoseo University
College of the Marshall Islands	<u>Sun Yat-Sen University of Medical Sciences</u>
Palau Community College	<u>Fuzhou University</u>
University of Papua New Guinea	<u>Guangxi Medical University</u>
National University of Samoa	<u>Dailan Medical University</u>
University of New Caledonia	<u>Dalian Polytechnic University</u> (China)
University of the South Pacific (Fiji)	<u>Xiamen University of Technology</u>
College of Micronesia-FSM	<u>Chunbuk National University</u>
Atenisi University (Tonga)	<u>Sungkyunkwan University</u> (Korea)
<u>Victoria University of Wellington</u>	<u>Kyung Hee University</u>
<u>University of Sao Paulo</u> (Brazil)	<u>Korea University</u>
Central South University of Forestry and Technology	<u>Howard College, Pai Chai University</u>
Fujian Normal University	Chulalongkorn University
Yunnan Agricultural University	Thammasat University
Yanbian University	Khon Kaen University
Huazhong University of Science and Technology	Chiang Mai University

King Mongkut's Institute of Technology,
Ladkrabang (Thailand)

Sam Ratulangi University

Institut Pertanian Bogor

Diponegoro University (Indonesia)

Centre for Cellular and Molecular Biology (India)

Madan Mohan Malaviya University of Technology

Vietnam National University, Hanoi

Vietnam National University, Ho Chi Minh City

Thai Nguyen University

Hanoi Medical University

Vietnam National University of Agriculture

Hanoi University of Science and Technology

National Taiwan University

National Taiwan Ocean University

National Sun Yat-Sen University

Tunghai University

National University of Tainan

National Penghu University of Science and Technology

National Yunlin University of Science and Technology

National Taiwan University of Science and Technology

National University of Laos

University of Health Science, Lao PDR

National University of Laos

Health Science University of Mongolia

Sabah Forstry Department

University of the Philippines

Rajshahi University of University of Information Technology

Universitas Syiah Kuala

University of Ruhuna

University of Tehran (Iran)

Kabul University

Universite Lille 1 Sciences et Technologies

Ecole Pratique des Hautes Etudes

Universite de Toulouse- Jean Jaurès

Universite Toulouse 1 Capitole

The University of Sheffield (U.K)

Heinrich-Heine-Universität Dusseldorf (Germany)

University of Hamburg

University of Gothenburg (Sweden)

Universitat Autònoma de Barcelona (Spain)

Rennes 1 University

University of Cape Town (Republic of South Africa)

※ Institutions underlined are those with which the University of the Ryukyus has inter-faculty exchange agreements.

Since its establishment, the University has endeavored to cultivate capable individuals who contribute to the international cooperation and development of society. With our experience, and geographical and historical background, the University aspires to be an international university which is open to South-East Asia and the Pan-Pacific region, as well as to our own local community.

Tropical Biosphere Research Center

This Center aims to carry out research on aspects of biodiversity, coral reef ecology, the functional physiology of animals in coral reefs, applied plant science, the functional physiology of bioresources, and forest resource science. The Center consists of the Nishihara Station, Sesoko Station, and Iriomote Station. The Center has 24 professional members, three foreign visiting research fellows and five domestic visiting research fellows. Visiting scientists and students are also welcome. In 2009, this Center has been combined with Center of Molecular Biosciences (COMB), and the research area has been extended to include functional genomics, molecular biotechnology, bioremediation, immunobiology and molecular microbiology. The Center is dedicated to higher education and the promotion of research in the field of tropical biosciences at cellular and molecular levels. All equipment and facilities are, in principle, available for use by students and faculty members from every school and department on campus.

Computing and Networking Center

The Computing and Networking center aims to promote computer education and to offer information processing services such as E-mail and internet access to all students, faculty, and staff by administering several UNIX servers and campus computer network facilities. The center possesses three computer rooms in the Computing and Networking Center building and six other computer rooms on campus. Each computer room provides 20 to 50 personal computers with both Windows and Mac operating systems. The center also has more than 30 personal computers for student use in the University Library. Students need a user ID for computer access; user ID application forms can be obtained from and submitted to the center. The campus network (RAINS: Ryukyu Academic Information Network System) is available on campus at 10 gbps bandwidth and connects to each room by means of 100base-T. RAINS is connected to the Internet via SINET (Science Information Network) at 1 gbps bandwidth.

Center for Research Advancement and Collaboration

The Center for Research Advancement and Collaboration is a joint-use center within the university

comprising five facilities (Instrumental Research Facility, Chemical Management Office, Environmental Research Facility, Radio Isotope (RI) Management Facility, and Low Temperature Facility). The Center supports the education and research activities of all faculty members and students at the university. The Instrumental Research Facility has introduced new analytical instruments used in various fields; it now operates more than 40 instruments and large printers. The Environmental Research Facility and the Chemical Management Office manage the storage, use, and disposal of chemicals and chemical waste. The Radio Isotope (RI) Management Facility is a specialized experimental facility that handles radioactive substances. The Low Temperature Facility manufactures and supplies liquid nitrogen and liquid helium to laboratories throughout the university. The facility also houses a laboratory with a helium gas recovery pipe network for experiments that use large amounts of helium.

University Library

The University Library is situated at the very center of the university campus. We are an open stack library equipped with the "OPAC: Online Public Access Catalog" book search engine system and our collection consists of nearly 962,000 volumes.

Currently we subscribe to 7,000 Japanese and foreign periodicals as well as 17 newspapers. Furthermore thousands of titles of electronic journals and 14 subscribed databases are accessible via our website. The library provides seating space for 956 users and is well equipped with seminar rooms, a satellite broadcasting room for foreign students, and single study rooms, which are available for intensive research by graduate students and faculty members.

The library hours are 8:00 to 22:00 on weekdays, and 8:30 to 22:00 on Saturdays, Sundays and holidays.

Health Administration Center

The Center has four full-time staff members: a doctor, a counselor, and two nurses. It is ready to offer the campus community various health services, such as first-aid, health examinations, and counseling in order to preserve and promote the health of the students as well as that of the academic and administrative staff.

Foreign Language Center

The Foreign Language Center provides language learning opportunities for all members of the University. It manages four language laboratories and carries audiovisual aids to promote language education and research in such foreign languages as English, French, German, Chinese, Spanish, Korean, Russian, Indonesian, etc. In addition, the Center makes Japanese language learning materials available to foreign students studying at the University.

A BRIEF OUTLINE OF OKINAWA PREFECTURE

Okinawa Prefecture consists of the main island and more than 60 other islands, both inhabited and uninhabited, and has a total population of approximately 1.38 million people. Its capital city, Naha, serves as a busy center for commerce and is the gateway to mainland Japan as well as the rest of the world.

Winters are fairly mild with the minimum temperature rarely falling below 10 degrees Celsius. Typhoons or tropical cyclones are frequent between July and October. Owing to a warm ocean current, called Kuroshio, most islands are surrounded with beautiful coral reefs which attract numerous tourists from around the world.

Okinawa remained under U.S. control after the end of the Pacific War until its reversion to Japan in 1972. Although Okinawa is an integrated part of Japan, and Japanese is the language spoken by Okinawans, the culture of the islands maintains its unique traditions in many aspects such as festivals, dancing, music, craft work, etc. The most commonly followed religion in Okinawa is ancestor worship, with elaborate family tombs being a common sight throughout the islands.