1 Organization

We aim to educate people who can develop technology and research for the cyclic use of biosources through efficient, environmentally-friendly methods and design a new society, building a harmonious recycling society.

To that end, we carry out research and education on the sustainable use of biosources through a study of biological life systems, the environment they live in, and biodiversity.

2 Outline of Departments

Graduate School of Bioreources

Department of Sustainable Resource Sciences

Department of Environmental Science and Technology

Department of Life Sciences

Faculty of Bioreources

3 Historical Chart

Mie Higher Agricultural and Forestry School

Mie University

Mie Prefectural University (Faculty of Fisheries)

Kii-Kuroshio Bio-regional Field Science Center

Graduate School of Bioreources

Graduate School of Bioreresources

Doctoral Program

Master’s Program

Office for Field Science Center and Training Ship

Office for Graduate School of Bioreources

4 Administrative Staff

As of Apr. 1, 2015

Executive Name Term

Dean

Vice Dean (Research Development)

Vice Dean (Educational Development)

Assistant to the Dean (Social Cooperation)

Assistant to the Dean (Project Design & Management)

University Councilors

Head Department of Sustainable Resources

Head Department of Environmental Science and Technology

Head, Department of Life Sciences

Director of Kii-Kuroshio Bio-regional Field Science Center

Captain, Training Ship "SEISUI MARU"

Head Office for Graduate School of Bioreources

Head Office for Field Science Center and Training Ship

5 Faculty Staff

As of Jul. 1, 2015

Classification

Registered Number

Professor

Associate Professor

Assistant Professor

Clerical / Technical Employees

Total

150

6 Organization of Departments

Graduate School of Bioreources - Doctoral Program

Departments

Sustainable Resource Sciences

International Sustainable Resource Science

Environment and Sustainable Earth System Science

Department of Sustainable Resource Sciences

Forest Resources and Environmental Science

International Regional Resource Science

Department of Agricultural Resources Science

Rural and Environmental Engineering

Department of Environmental Science and Technology

Applied Biological Chemistry

Marine Biological Science

Department of Life Sciences

Integrated Agricultural Production System

Biotechnology and Biotechnology

Graduate School of Bioreresources

1. Food Production Science

2. Forest Resources and Environmental Science

3. International Sustainable Resource Science

4. Atmosphere and Environment Science

5. Environmental and Agricultural Engineering

6. Applied Biological Chemistry

7. Marine Biological Science

Research Fields

- International Sustainable Resource Science

- Environment and Agricultural Engineering

- Applied Biological Chemistry

- Marine Biological Science
# Graduate School of Bioresources–Master’s Program

**Department of Sustainable Resource Sciences**

## Courses

### Agrobiology
- Crop Genetics and Breeding
  - Professor: Katsuyuki Katakda
  - Associate: Keita Sawabe
- Crop Physiology
  - Professor: Teruhisa Umezaki
  - Associate: Yuichi Nagaya
- Animal Production
  - Professor: Hiroki Matsui
  - Associate: Tomomi Ban
- Postgraduate and Arable Plant Food Production
  - Professor: Makoto Kondo
- Plant Biology
  - Professor: Susumu Takamatsu
  - Associate: Chiharu Nakashima
- Forest Ecology
  - Professor: Hiromitsu Kisanuki
  - Associate: Takeshi Teramura
- Soil Science and Plant Nutrition
  - Professor: Takafumi Mizuno
  - Associate: Toshihiko Uchidzu
- Forest and Forest Conservation Technology
  - Professor: Toshihiko Yamae
  - Associate: Akemi Taya
- Food Science and Technology
  - Professor: Naoyuki Suzuki
  - Associate: Takeyuki Uchizako
- Environmental Resource Management and Rural Sociology
  - Professor: Hiroki Tokuda
  - Associate: Hiroshi Nonaka
- Forest Management and Ecological Research
  - Professor: Takeshi Hatano
  - Associate: Taeko Katsura
- Economic System of Agriculture
  - Professor: Qingxiu Chang
  - Associate: Takahiro Matsu
- Global Resource Utilization Science
  - Professor: Masakazu Goto

## Laboratories

### Geosciences
- Atmosphere and Climate Change
  - Professor: Yoshihiro Tachibana
- Ocean Climate Laboratory
  - Professor: Yoshihiro Sekine
  - Associate: Fukui Yamada
- Sustainable Earth System Laboratory
  - Professor: Tatsuhiko Sakamoto
- Vadose Zone Hydrology
  - Professor: Kunio Watanabe
  - Associate: Ryoei Ito
- Agricultural and Forest Systems
  - Professor: Takeshi Kameoka
  - Associate: Naoko Matsuo
- Water Environment and Natural Disasters
  - Professor: Naoto Matsumura
  - Associate: Ken Ohno
- Forest Planning for the Environment
  - Professor: Kunio Kato
  - Associate: Takeshi Fukushima
- Applied Environmental Science
  - Professor: Ho Jinyang
  - Associate: Mitsushi Yamashita
- Environmental Information and Technology
  - Professor: Katsutoshi Murakami
  - Associate: Yoshinari Morio
- Marine Biotechnology
  - Associate: Yoshinori Sakai
  - Associate: Masakazu Kondo

### Forest Resources and Environmental Science

### International Regional Resource Science

## Department of Environmental Science and Technology

### Courses

### Laboratories

### Geosciences
- Hydrogeology and Geochemistry
  - Professor: Yoshihiro Tachibana
  - Associate: Tatsuhiko Sakamoto
- Ocean Climate Laboratory
  - Professor: Yoshihiro Sekine
  - Associate: Fukui Yamada
  - Associate: Naoko Matsuo
- Sustainable Earth System Laboratory
  - Professor: Tatsuhiko Sakamoto
  - Associate: Naoto Matsumura
- Vadose Zone Hydrology
  - Professor: Kunio Watanabe
  - Associate: Ryoei Ito
  - Associate: Ken Ohno
- Agricultural and Forest Systems
  - Professor: Takeshi Kameoka
  - Associate: Naoko Matsuo
  - Associate: Ken Ohno
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  - Professor: Naoto Matsumura
  - Associate: Ken Ohno
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  - Professor: Kunio Kato
  - Associate: Takeshi Fukushima
- Applied Environmental Science
  - Professor: Ho Jinyang
  - Associate: Mitsushi Yamashita
- Environmental Information and Technology
  - Professor: Katsutoshi Murakami
  - Associate: Yoshinari Morio
- Marine Biotechnology
  - Associate: Yoshinori Sakai
  - Associate: Masakazu Kondo
  - Associate: Masakazu Goto

### Environment Oriented Information and System Engineering

### Marine Biology

## Department of Life Sciences

### Courses

### Laboratories

### Biochemistry and Biotechnology
- Molecular and Cellular Biology
  - Professor: Akira Ishikawa
  - Associate: Kazunori Taguchi
- Molecular Biotechnology
  - Professor: Jun Kohara
  - Associate: Taeko Miyazaki
- Biotechnological Chemistry
  - Professor: Akira Kurashima
- Bioprocess Chemistry
  - Professor: Takao Yoshimatsu
- Bioanalysis and Biotechnology
  - Professor: Motoi Iwashita
  - Associate: Taiga Yodo
- Biotechnology of Aquatic Bioresources
  - Professor: Satoshi Kanoh
  - Associate: Daisuke Funabara
  - Associate: Reiji Tanaka

### Marine Biotechnology
- Marine Biology
  - Professor: Yutaka Tamaru
  - Associate: Makoto Kakinuma
- Marine Biotechnology
  - Professor: Tsuyoshi Okada
  - Associate: Atsushi Ooi
  - Associate: Fumiyuki Kanoh
  - Associate: Daisuke Funabara
  - Associate: Reiji Tanaka
- Marine Ecology
  - Professor: Tsuyoshi Okada
  - Associate: Atsushi Ooi

### Department of Natural Science

### Courses

### Laboratories

### Botanical Botany
- Biological Botany
  - Professor: Akira Ishikawa
  - Associate: Kazunori Taguchi
- Biological Chemistry
  - Professor: Jun Kohara
  - Associate: Taeko Miyazaki
- Botanical Physiology
  - Professor: Akira Kurashima
- Botanical Genetics
  - Professor: Takao Yoshimatsu
- Bioanalysis and Biotechnology
  - Professor: Motoi Iwashita
  - Associate: Taiga Yodo
- Biotechnology of Aquatic Bioresources
  - Professor: Satoshi Kanoh
  - Associate: Daisuke Funabara
  - Associate: Reiji Tanaka
- Marine Ecology
  - Professor: Tsuyoshi Okada
  - Associate: Atsushi Ooi
Research Expenditures

12

Grant-in-Aid for Scientific Research (Unit: 1,000yen)

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<th>Research in Cooperation</th>
<th>2010 Academic Year</th>
<th>2011 Academic Year</th>
<th>2012 Academic Year</th>
<th>2013 Academic Year</th>
<th>2014 Academic Year</th>
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<td>Amount</td>
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13

Land and Buildings

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<thead>
<tr>
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<th>Land (m²)</th>
<th>Buildings (m²)</th>
<th>Location</th>
</tr>
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<tbody>
<tr>
<td>Faculty of Bioresources</td>
<td>325,299</td>
<td>528,040</td>
<td>1577 Kurimamachiya-cho, Tsu-city</td>
</tr>
<tr>
<td>Kii-Kuroshio Bio-regional Field Science Center</td>
<td>353,179</td>
<td>4,569,562</td>
<td>2072-2 Takanocho-cho, Tsu-city</td>
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<tr>
<td>Forest Station</td>
<td>8,300</td>
<td>1,421</td>
<td>2735 Kawakami, Matsumoto-cho, Tsu-city</td>
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<tr>
<td>Fisheries Research Laboratory</td>
<td>1,120</td>
<td>4190-172 Wajg, Shimashita, Shimashita-city</td>
<td></td>
</tr>
<tr>
<td>Training Ship</td>
<td>374</td>
<td>574</td>
<td>1819-18 Tsukiji, Dokuchi-cho, Matsuoka-city</td>
</tr>
</tbody>
</table>

14

Kii-Kuroshio Bio-regional Field Science Center

Department of Sustainable Ecosystems, Regional Environments, Food Resources for independently or jointly pursuing practical education and applied research on the coexistence of human life and nature in the ecosystems ranging from the Kii Peninsula to the Kuroshio Current.

- **Kii-Kuroshio Bio-regional Field Science Center related organizations**
  - Graduate School of Bioresources
  - Sustainable Resource Sciences
  - Environmental Science and Technology
  - Life Sciences

- **Training Ship "SEISUI MARU"**

**Farm Station**

The experimental farm is located about 9.5km northwest from the main campus of the university. The total area of the farm is 39ha including fields for rice, crops, vegetables, pastures and orchards. There are several greenhouses for some vegetables and flowers, and facilities for cattle and experimental ruminate animals. There are also facilities for the study of processing of agricultural products. These field, animal, and crop processing facilities are being utilized by both research staff for field science and for laboratory studies, and by faculty staff who are responsible for the farming of undergraduate students.

**Forest Station**

The experimental forest, about 457ha in area, is located about 60km southwest of the university. Natural forests, about 60 percent in area, represent the typical plant ecosystem in the northern parts of the Kii Peninsula. Forests and the loging house are open to the public and used widely for research and education.

**Fisheries Research Laboratory**

The laboratory provides appropriate facilities for students to learn techniques of fishery science and marine biology. The major research lines in progress, such as ichthyology, aquaculture of marine fish, invertebrates and algae, and fish physiology, are conducted by the laboratory and faculty staff, and graduate students.
**15 Training Ship "SEISUI MARU"**

The ship provides educational and research facilities for student practice and research activities of both the faculty staff and students. In January 2009, it was built, and equipped with new electric nautical marine research instruments.

**16 Sansui Hall**

Sansui Hall, which was built in August 1936, is the oldest building on the Kamihama campus and has been registered as a cultural asset. This building, once managed as accommodation for visiting lecturers and other visitors, and supported by donations from graduates of the former Mie Higher Agriculture and Forestry School, is currently being utilized for meetings and other beneficial purposes.

**17 Map of Facility Arrangement**

![Diagram](image_url)

<table>
<thead>
<tr>
<th>Facility</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Bioreources</td>
<td></td>
</tr>
<tr>
<td>Administration Bureau</td>
<td></td>
</tr>
<tr>
<td>Sansui Hall</td>
<td></td>
</tr>
<tr>
<td>University Research Hall II</td>
<td></td>
</tr>
<tr>
<td>University Library</td>
<td></td>
</tr>
<tr>
<td>Center for Information Technologies and Networks</td>
<td></td>
</tr>
<tr>
<td>Faculty of Humanities, Law and Economics</td>
<td></td>
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<tr>
<td>Experimental Waterfronts</td>
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<tr>
<td>Regional Innovation Center Life Science Research Center (Molecular Biology Facilities) Community-University Research Cooperation Center</td>
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<tr>
<td>Creative Research Development Institute</td>
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<tr>
<td>Auditorium (Sansui Hall)</td>
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<tr>
<td>Faculty of Engineering</td>
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<tr>
<td>Industrial Technology Innovation Institute</td>
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<td>University Hospital</td>
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<tr>
<td>Faculty of Medicine</td>
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<tr>
<td>University Research Hall I</td>
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<tr>
<td>Facilities of Food Engineering</td>
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</tr>
<tr>
<td>Raymond Hall</td>
<td></td>
</tr>
</tbody>
</table>

**18 Addresses**

<table>
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<tr>
<th>Name</th>
<th>Post Code</th>
<th>Mailing Address</th>
<th>Telephone Number</th>
<th>FAX Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Faculty of Bioreources</td>
<td>514-8507</td>
<td>1577 Kurimamachiya-cho, Tsu-city</td>
<td>+81-59-231-9626</td>
<td>+81-59-231-9634</td>
</tr>
<tr>
<td>Ki-Kuroshio Bio-regional Field Science Center</td>
<td>514-2221</td>
<td>2072-2 Takanocho, Tsu-city</td>
<td>+81-59-230-0044</td>
<td>+81-59-230-1463</td>
</tr>
<tr>
<td>Farm Station</td>
<td>514-2221</td>
<td>2072-2 Takanocho, Tsu-city</td>
<td>+81-59-230-0044</td>
<td>+81-59-230-1463</td>
</tr>
<tr>
<td>Forest Station</td>
<td>515-3532</td>
<td>2735 Kawakami, Misugi-cho, Tsu-city</td>
<td>+81-59-274-0135</td>
<td>+81-59-274-1171</td>
</tr>
<tr>
<td>Training Ship &quot;SEISUI MARU&quot;</td>
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<tr>
<td>Matsuoka Port Telephone</td>
<td></td>
<td></td>
<td>+81-59-55-1066</td>
<td>+81-59-55-1066</td>
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<tr>
<td>Auto Shipping Telephone</td>
<td></td>
<td></td>
<td>+81-59-231-9626</td>
<td>+81-59-231-9634</td>
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<tr>
<td>INMARSAT Telephone</td>
<td></td>
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<td>+81-59-55-1066</td>
<td>+81-59-55-1066</td>
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<tr>
<td>Training Ship Base</td>
<td>515-0001</td>
<td>1819-18 Tsukui, Otsuchi-cho, Matuskada-city</td>
<td>+81-59-51-0710</td>
<td>+81-59-51-8849</td>
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</table>

**19 Map of Mie University’s Location**

![Map](image_url)

- **Access routes to Mie University**
  - By Kintetsu Express
    - From Nagoya: Kyoto-Nara Express: 60km, 1h10min
    - From Osaka: Kyoto-Nara Express: 30km, 30min
  - By Kintetsu Limited Express
    - From Nagoya: Kyoto-Nara Express: 30km, 30min
  - By JR Limited Express
    - From Osaka: Kyoto-Nara Express: 110min
  - By bus from Tsu Station
    - By Kintetsu Express: 60km, 1h10min
    - By JR Limited Express: 30km, 30min
  - By bus from Kansai Monorail: 15min
  - By bus: 50km, 1h10min
  - By car: 10km, 10min

- **Map of Facility Arrangement**
  - Faculty of Bioreources
  - Administration Bureau
  - Sansui Hall
  - University Research Hall II
  - University Library
  - Center for Information Technologies and Networks
  - Faculty of Humanities, Law and Economics
  - Experimental Waterfronts
  - Regional Innovation Center Life Science Research Center (Molecular Biology Facilities) Community-University Research Cooperation Center
  - Creative Research Development Institute
  - Auditorium (Sansui Hall)
  - Faculty of Engineering
  - Industrial Technology Innovation Institute
  - University Hospital
  - Faculty of Medicine
  - University Research Hall I
  - Facilities of Food Engineering
  - Raymond Hall

- **Access routes to Mie University**
  - By bus from Tsu Station
    - By Kintetsu Express: 60km, 1h10min
    - By JR Limited Express: 30km, 30min
  - By bus from Kansai Monorail: 15min
  - By car: 10km, 10min