# University of Miyazaki (National)

**Study Area:** Engineering

## 1. Basic Information

<table>
<thead>
<tr>
<th>Fields of Study</th>
<th>Specific Research Fields</th>
</tr>
</thead>
<tbody>
<tr>
<td>8. Others</td>
<td>25. Chemical Technology</td>
</tr>
</tbody>
</table>

### 1-1. Graduate School (URL of Graduate School)
- Graduate School of Engineering
  - [http://www.miyazaki-u.ac.jp/tech/engineering_e.html](http://www.miyazaki-u.ac.jp/tech/engineering_e.html)

### 1-2. Program Name
1. Graduate Course in Civil and Environmental Engineering
2. Graduate Course in Electrical and Electronic Engineering
3. Graduate Course in Computer Science and Systems Engineering
4. Graduate Course in Applied Chemistry

### 1-3. Degrees
- Master of Engineering

### 1-4. Status
- Research Student (12 months) → Graduate School Student (2 years)

### 1-5. Credits and years needed for graduation (In the case of Graduate School Student)
- 30 credits (10 subjects 20 credits by class, plus 10 credits as master’s research and thesis).
- 2 years (Not including the first year research student period)

### 1-6. Classes taught in English
1. 13/13 (Classes in English/ All classes) in Graduate Course in Civil and Environmental Engineering
2. 16/16 (Classes in English/ All classes) in Graduate Course in Electrical and Electronic Engineering
3. 15/15 (Classes in English/ All classes) in Graduate Course in Computer Science and Systems Engineering
4. 9/9 (Classes in English/ All classes) in Graduate Course in Applied Chemistry

Text: All English

### 1-7. Desired English Level
- TOEFL iBT 68
- PBT: 520
- IELTS 5.5

### 1-8. Prior Inquiry From Applicants (Before submission of AF)
- Must/
- Ideal/Not mandatory/Unnecessary

Contact: Prof. Chikashi Deguchi, feiec@cc.miyazaki-u.ac.jp
1-9. Message for Applicants

Each foreign student has a tutor who will assist your study and daily life for one year. The International house (dormitory) is located in the university campus and available for PEACE participants.

Graduate Course in Civil and Environmental Engineering has accepted 29 central and local government officials from Indonesia, financed by JICA yen-loan project, and conferred Master of Engineering to all of them. The Faculty of Agriculture has already accepted nine PEACE Project participants. Some of them joined the classes provided by the Graduate Course in Civil and Environmental Engineering.

1-10. Additional Information

<table>
<thead>
<tr>
<th>Availability/ Number</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Japanese Language</td>
<td></td>
</tr>
<tr>
<td>(1) Necessity of Japanese language for “study”</td>
<td>Not necessary</td>
</tr>
<tr>
<td>(2) Availability of Japanese language class</td>
<td>Available Free Japanese lessons available, Tutor system available</td>
</tr>
<tr>
<td>Foreign Students</td>
<td></td>
</tr>
<tr>
<td>(1) Number of foreign students enrolled in past 3 years</td>
<td>53 Indonesia, China, Korea, Malaysia, Vietnam</td>
</tr>
<tr>
<td>(2) Number of PEACE participants currently enrolled</td>
<td>0</td>
</tr>
<tr>
<td>(3) Number of female/male at the Graduate School</td>
<td>F23/M253</td>
</tr>
<tr>
<td>Facility Information</td>
<td></td>
</tr>
<tr>
<td>(1) Dormitory available for PEACE participants</td>
<td>Available Single room only.</td>
</tr>
<tr>
<td>(2) Prayers room</td>
<td>Available Prayers room is in the Faculty of Engineering building. A house which more than 30 persons can pray on Friday in the university campus.</td>
</tr>
<tr>
<td>(3) Halal food available in cafeteria</td>
<td>Not available</td>
</tr>
<tr>
<td>Others</td>
<td></td>
</tr>
<tr>
<td>(1) Tutor system</td>
<td>Available One tutor for each PEACE participant</td>
</tr>
</tbody>
</table>
2. Features of University

【Brief History of the University of Miyazaki】
Miyazaki University was founded in 1949 based upon the merger of Miyazaki Advanced Agricultural and Forestry School, Miyazaki Prefectural Normal School for Primary Education, and the Miyazaki Prefectural Advanced Technical School. Miyazaki Medical College was founded in 1974. Miyazaki University and Miyazaki Medical College then merged to form the University of Miyazaki in October 2003. Currently the University of Miyazaki has four faculties: Education and Culture, Medicine, Engineering, and Agriculture. In April 2004, the University of Miyazaki gained National University Corporation status.

【Location】
Miyazaki Prefecture is located in southeastern of Kyushu, at about the same latitude as Nanjing (China), Jerusalem (Israel), and San Diego (USA). Miyazaki City is situated on the coast and has a population about 400,000. The warm currents of the Pacific Ocean give Miyazaki one of the warmest climates in Japan. Winters are mild, and it rarely snows. The city enjoys a sparkling blue sea and bright sunshine. With its warm climate and numerous sports facilities, Miyazaki City is crowded with the spring training camps for professional baseball and soccer teams from the end of January through February each year.

3. Features of Graduate School

【Graduate School of Engineering】
The Graduate School of Engineering is an advanced education and research institution in the field of Engineering in Miyazaki. It aims to develop scientists and engineers with advanced expertise. The school has produced 113 Ph.D.s in engineering and 2,658 masters of engineering. Special lectures in English are available for foreign students. These alumni are expected to contribute to local community as well as
to international community as scientists, engineers, or researchers, who will play an important role in the dependent of science and technology in the 21st century.

4. Features of the Program and Curriculum in each Field of Study

【Graduate Course in Civil and Environmental Engineering】 (2.Urban Planning)
This course consists of the three essential divisions of research and practice: Construction & Structural Engineering division, Environmental Control Engineering division, and Environmental Planning division including Urban and Transportation Planning.
The main research areas of those divisions are as follows: The development of the new structural type in harmony with the environment and soft materials of ecology, the creation of “the living environmental consistent to the natural environment” and analysis of the complex social needs for development of social capital to create “the wealthy and comfortable society”, respectively.

Advanced Research I (4 credits)
Advanced Research II (6 credits)
Advanced Regional and City Planning (2 credits)
Advanced Transportation Planning (2 credits)
Project Management for Infrastructure Development (2 credits)
Environmental Planning and Waste Management (2 credits)
Sewage Systems and Water Treatment (2 credits)
Coastal Planning for Disaster Prevention and Conservation (2 credits)
Earthquake Engineering and Prevention Planning (2 credits)
Construction Structures and Materials (2 credits)
Tunnel Engineering (2 credits)
Durability of Concrete (2 credits)
MOT and Venture Business (2 credits)

【Graduate Course in Electrical and Electronic Engineering】(17. Electrical Engineering)
The Graduate Course in Electrical and Electronic Engineering conducts research and instructional programs in three main areas; Physical Electronics Electronic Systems, and Electrical Energy. The physical Electronics area encompasses applied optical engineering, opto-quantum engineering, opto-electronics materials engineering, electronic and optical properties of solid, physics of solid state device, advanced solid state physics, high energy astrophysics, and nonlinear mathematics. The Electronic Systems area encompasses advanced VLSI system design, advanced circuits synthesis, nonlinear systems, optimization of stochastic systems, advanced intelligent information system, advanced computer architecture, and optical communication system. The Electrical Energy area covers fundamental theory of quantum electronic engineering, and advanced studies of plasma engineering, laser applications engineering, high voltage engineering, applied engineering, energy engineering and control engineering.

Advanced Research I on Electrical and Electronic Engineering (4 credits)
Advanced Research II on Electrical and Electronic Engineering (6 credits)
Principles of the Photo Electronic Properties in Semiconductor Quantum Structures (2 credits)
Solid State Physics and Materials Science (2 credits)
Nano Structure Photovoltaic Device (2 credits)
Study of Solar Energy Conversion (2 credits)
Application of Solar Energy Conversion (2 credits)
Advanced Photonic System (2 credits)
Advanced Analog Integrated Circuits (2 credits)
Operational Amplifiers and Linear Integrated Circuits (2 credits)
Fuzzy System and Neural Networks (2 credits)
Electric Power Engineering (2 credits)
Quantum Energy Engineering (2 credits)
Introduction to Control Theory (2 credits)
Ionized Gas Engineering (2 credits)
MOT and Venture Business (2 credits)

【Graduate Course in Computer Science and Systems Engineering】(16. Computer Science)
The Graduate Course in Computer Science and Systems Engineering covers the following four areas of research and education -- Database Systems Engineering, Analytical Information Processing, Information Control Systems and Information Systems for Production Engineering. They offer a broad spectrum of disciplines in advanced computer science and systems engineering as well as multidisciplinary research projects, such as network security in distributed system, nonlinear dynamics and complex adaptive systems, intelligent control systems, and intelligent systems for production engineering.

Advanced Research I on Computer Science and Systems Engineering (4 credits)
Advanced Research II on Computer Science and Systems Engineering (6 credits)
Introduction to Computer Science and Systems Engineering (2 credits)
Advanced Lecture on Data Analysis (2 credits)
Advanced Lecture on Numerical Analysis (2 credits)
Advanced Lecture on Automata Theory, Languages and Computation (2 credits)
Advanced Lecture on Information Processing (2 credits)
Advanced Lecture on Knowledge Processing on Industry (2 credits)
Advanced Lecture on Information Networks (2 credits)
Advanced Lecture on Software Engineering (2 credits)
Advanced Lecture on Mathematical Programming (2 credits)
Robotics for Material Handling (2 credits)
Intelligent mobile systems (2 credits)
Advanced Lecture on Neural Networks (2 credits)
MOT and Venture Business (2 credits)

【Graduate Course in Applied Chemistry】 (25. Chemical Technology)
The Graduate Course in Applied Chemistry consists of the following divisions and research areas;
(1) Materials Science and Engineering: reaction chemical engineering, synthesis of functional inorganic materials and their applications (2) Organic Chemistry: Organic photochemistry, synthesis of biologically potent compounds by chemical and enzymatic reactions (3) Biotechnology: physics of macromolecules, industrial biochemistry and biotechnology

Advanced Research I on Applied Chemistry (4 credits)
Advanced Research II on Applied Chemistry (6 credits)
Advanced Applied Chemistry (2 credits)
Advanced Materials Chemistry (2 credits)
Advanced Chemical Technology (2 credits)
Advanced Organic Chemistry (2 credits)
Advanced Biotechnology (2 credits)
Advanced Applied Chemical Technology (2 credits)
MOT and Venture Business (2 credits)

#The maximum of 10 credits obtained at the other graduate course or 10 credits obtained at the other graduate school will be counted as the part of 30 credits which will be required for getting Master degree at the University of Miyazaki.

Afghanistan research student will prepare his research plan with discussion of his supervisor from October 2014 to September 2015. Also he develops his skill and knowledge of his interest, by receiving the lectures, looking around the concerning experimental stations and fields, attending the seminars and carrying out the preliminary experiments during that time. In addition, he can receive the basic Japanese lesson accordingly his ability. He will enter graduate school as Master course from October 2015 and start his work for implementation of the plan.
5. Academic Schedule

【Research Student】
Screening of Application materials : May 2014
Announcement of Entrance Examination results : Depending on the PEACE Project schedule
Entrance : October 1st 2014
Autumn Semester : 1 October 2014 ~ 31 March 2015
Spring Semester : 1 April 2015 ~ 30 September 2015

【Graduate School of Engineering】
[Ordinary Schedule] (Schedule for the Afghan participants is now under consideration)
Entrance Examination for Foreign student : April 2015
Announcement of Entrance Examination results : May 2015
Entrance : October 2015
Autumn Semester : October 2015 ~ March 2016
Spring Semester : October 2015 ~ March 2016
Graduation : September 2017

6. Facilities

University of Miyazaki provides accommodation for international students at the International House.

7. List of faculty members (supervisors) capable of guiding Afghan participants in English

Note : * indicates female member

【Graduate Course in Civil and Environmental Engineering】
DEGUCHI Chikashi: Dr. Eng., Professor, Email: deguchi@cc.miyazaki-u.ac.jp
1) Project management for city planning and transportation planning
2) Public Private Partnership (PPP) and PFI for developing and maintenance of public facilities
3) Management of community bus systems

SHIMAMOTO Hiroshi: Dr. Eng., Associate Professor, Email: shimamoto@cc.miyazaki-u.ac.jp
1) Transportation network modeling, 2) Public transportation planning
3) Reliability issues of transportation, 4) Evacuation planning against natural disaster
DOTE Yutaka: Dr. Eng., Professor, Email: dote@civil.miyazaki-u.ac.jp
1) Phosphorus and potassium recovery from organic residues
2) Utilization of MSWI residues, 3) Control of leachate quality, 4) Management of landfill site

HARADA Takanori: PhD, Professor, Email: harada@civil.miyazaki-u.ac.jp
1) Diagnosis of seismic performance of civil and industrial infrastructures and their mitigation method
2) Computer simulation of seismic ground motion and 3D inelastic response behaviors of civil and industrial infrastructures
3) Estimation of subsurface ground structure using seismic wave and its application to seismic hazard map, 4) Earthquake engineering issues

KAMEI Takeshi: PhD, Professor, Email: kamei@civil.miyazaki-u.ac.jp
1) Contribution to building a sustainable society by recycling of waste plasterboard
2) In-situ tests using a Flat Dilatometer(DMT) and its reliability
3) Development of simplified deformation analysis for embankment foundation using elasto-plastic model, 4) Geotechnical engineering for disaster mitigation and rehabilitation

LI Chunhe: Ph.D., Associate Professor, Email: lichunhe@cc.miyazaki-u.ac.jp
1) Long-term durability of cementitious materials,
2) Influence of admixtures on material performance of concrete
3) Influence of curing conditions on material performance of concrete
4) Crack control of concrete structures

MURAKAMI Keisuke: PhD, Associate Professor, Email: keisuke@cc.miyazaki-u.ac.jp
1) Development of management techniques for preserving coastal environment based on both field observation and numerical simulation
2) Disaster mitigation against Tsunami, storm surge and waves on coastal area
3) Development of multi purpose artificial reef for preserving appropriate beach environment
4) Development of mitigation system against natural disaster in local community
5) Development of appropriate soil management system on watershed area

ONOUE Kouzou: PhD, Assistant Professor, Email: onoue@civil.miyazaki-u.ac.jp
1) Fatigue strength of concrete under repetitive loading, 2) Physical propriety of concrete
3) Effective utilization of molten slag as aggregate for concrete
4) Development of high-added-value solidified substance with industry by-product
5) Deterioration mechanism and maintenance method of concrete structure

SEKITO Tomoo: PhD, Assistant Professor, Email: sekito@civil.miyazaki-u.ac.jp
1) Utilization and environmental assessment of MSW treatment residues
2) Sustainable recycling of municipal solid waste in developing countries
3) Community-based household waste management and recycling behavior

SEZAKI Mitsuhiro: Dr. Eng., Associate Professor, Email: sezaki@civil.miyazaki-u.ac.jp
1) Mechanical and numerical modeling of tunnel supporting materials
2) Mechanics of failure around shallow tunnels, 3) Arsenic pollution of groundwater in India

SUZUKI Yoshihiro: Dr. Eng., Dr. Fish. Sci., Professor, Email: suzuki@civil.miyazaki-u.ac.jp
1) Monitoring of water quality in water environments
2) Microbial source tracking in waterfront zones, 3) Application of foam separation
4) Susceptibility of bacteria isolates collected from water environments in Japan to antibiotic agents
5) Investigation of cause of long-term turbidity water in reservoirs
【Graduate Course in Electrical and Electronic Engineering】

HAYASHI Noriyuki, Dr. Eng, Professor, Email: n.hayashi@cc.miyazaki-u.ac.jp
  1) Safety of Electricity
  2) Characterization of Electric Shock Currents and Electromagnetically-Induced Currents with respect to Human Exposure in low and intermediate frequencies
  4) Utilization of both Electric and Heat Energies Produced by Co-Generation systems.

HODAKA Ichijo: PhD, Professor, E-mail: hijhodaka@cc.miyazaki-u.ac.jp
  1) System fault detection of switching converters
  2) Theoretical and experimental development of high-efficiency wireless power transfer
  3) Controller design of photovoltaic power generation system
  4) Fast computer algorithm for symbolic analysis of electronic circuits
  5) Approximate solutions of linear periodic differential equations
  6) Education materials of microcontroller embedded system

KAKU Masanori: PhD, Assistant Professor, Email: kaku@opt.miyazaki-u.ac.jp
  1) Generation of VUV ultrashort pulses using harmonic radiations
  2) Characterization of femtosecond pulses in VUV spectral region
  3) VUV rare gas excimer lasers excited by a femtosecond laser
  4) Laser-product-plasma emission sources in EUV spectral region
  5) Surface analyses using EUV light

KUBODERA Shoichi: PhD, Professor, Email: kubodera@opt.miyazaki-u.ac.jp
  1) Development of OFI argon excimer lasers and amplifiers
  2) Generation of subpicosecond VUV coherent radiation
  3) Optical pumping of rare-gas-dimers in high-pressure rare-gases
  4) Incoherent VUV emission sources and applications
  5) Laser-produced plasma EUV emission sources

MAEDA Kouji: PhD, Professor, Email: t0b153u@cc.miyazaki-u.ac.jp
  1) X-ray luminescence of rare earth doped sulphide materials
  2) Structural characterizations of semiconductor thin films by Raman scattering and X-ray diffraction methods
  3) Photoluminescence of semiconductors and rare earth doped films

MATSUMOTO Hiroki: PhD, Associate Professor, Email: matsumotoh@cc.miyazaki-u.ac.jp
  1) Low voltage switched-capacitor circuits, 2) Integrated digital capacitance meter
  3) Analog-to-digital converter using MOSFET’s

NAGATA, Shoichiro: PhD, Assistant Professor, Email: nagata@ee.miyazaki-u.ac.jp
  1) Eddy current non-destructive evaluations
  2) Two-dimensional vector magnetic property measurement
  3) Numerical analysis technique of electromagnetics, 4) Improvement of electric apparatus

SAKODA Tatsuya, PhD, Professor, Email: sakoda@cc.miyazaki-u.ac.jp
  1) Development of ozonizer using micro-barrier discharge formed in water
  2) Development of diagnostic technique for electric power apparatus
  3) Development of polymer insulator / arrester

TAMURA Hiroki: PhD (Dr. Eng.), Associate Professor, Email: htamura@cc.miyazaki-u.ac.jp
  1) Development of human interface using Surface-ElectronMyoGram
  2) Biomechanical analysis and pattern recognition
3) Performance improvement of neural networks
4) Metaheuristics for combinatorial optimization problems

TANNO Koichi: PhD, Professor, Email: tanno@cc.miyazaki-u.ac.jp
1) Design of MOS analog integrated circuits
2) Development of sensing devices for biological signals and its application
3) Development of nanoscale mist sprayer

*THI THI ZIN: Dr. Eng., Associate Professor, Email: thithi@cc.miyazaki-u.ac.jp
1) Vision-based human behavior analysis in video surveillance systems
2) Visual social content-based image searching and ranking
3) Key information search systems in big data environments
4) Markov clustering methods and applications to image and information processing
5) Stochastic and statistical background modeling and techniques

YOKOTA Mitsuhiro: PhD, Professor, Email: t0b210u@cc.miyazaki-u.ac.jp
1) Scattering from a periodic structure
2) Design of photonic and electromagnetic devices
3) Development of modeling for indoor radio propagation environment
4) Reconstruction of dielectric constant using electromagnetic wave

YOKOTANI Atsushi: PhD, Professor, Email: yokotani@opt.miyazaki-u.ac.jp
1) Material processing using vacuum ultraviolet radiation
2) Development of a new technique for analysis of trace amount organic impurities
3) Formed short pulse laser and their application
4) Development of a new fabrication technique for fiber bragg grating sensors

YOSHINO Kenji: PhD, Associate Professor, Email: t0b114u@cc.miyazaki-u.ac.jp
1) Development of compound semiconductor based solar cells
2) Development of dye-sensitized solar cells
3) Development of transparent conductive oxide materials

【Graduate Course in Computer Science and Systems Engineering】
DATE Akira: PhD, Associate Professor, Email: date@cs.miyazaki-u.ac.jp
1) Computational neuroscience, 2) Information processing models: Minds and machines
3) Neural representation and neural modeling, 4) Population dynamics of large networks of neurons
5) Sparse coding of spatiotemporal structure

HATSUKADE Isamu: PhD, Professor, Email: hatukade@cs.miyazaki-u.ac.jp
1) X-ray study of cosmic thin hot plasmas, such as clusters of galaxies and supernova remnants
2) Optical observation study of transient astronomical objects, 3) Astronomical data analysis

IKEDA Satoshi: PhD, Associate Professor, Email: bisu@cs.miyazaki-u.ac.jp
1) Design and analysis of probabilistic algorithm, 2) Combinatorial optimization problems
3) Geometric measure theory

KATAYAMA Tetsuro: PhD, Associate Professor, Email: kat@cs.miyazaki-u.ac.jp
1) Design and visualization to develop software efficiency
2) Software testing for guarantee of software quality, 3) Software reliability for embedded systems

KUBOTA Shin-Ichiro: PhD, Associate Professor, Email: kubota@cs.miyazaki-u.ac.jp
1) Method for the location estimation using Wi-fi RSS
2) Online learnings with the Instructional Design Technology
OKAZAKI Naonobu: PhD, Professor, Email: oka@cs.miyazaki-u.ac.jp
  1) Reliable routing scheme for mobile ad-hoc network
  2) IP tarce-back for distributed DoS attacks, 3) Lambda-path routing for WDM network

SAKAMOTO Makoto: PhD, Associate Professor, Email: sakamoto@cs.miyazaki-u.ac.jp
  1) Theoretical study on Automata Theory, 2) Computational complexity and recognizability of picture
  3) Application of image processing and computer graphics, 4) Color and CG Design
  5) Analysis of various problems by complex systems

SAKAMOTO Makoto: PhD, Associate Professor, Email: sakamoto@cs.miyazaki-u.ac.jp
  1) Reliable routing scheme for mobile ad-hoc network
  2) IP tarce-back for distributed DoS attacks, 3) Lambda-path routing for WDM network

YAMABA Hisaaki: PhD, Assistant Professor, Email: yamaba@cs.miyazaki-u.ac.jp
  1) Scheduling and management of chemical plants
  2) Development of computer-based design support systems of production systems

YAMAMORI Kunihito: PhD, Associate Professor, Email: yamamori@cs.miyazaki-u.ac.jp
  1) Parallel processing and high-performance computing, 2) Fault-Tolerant computing
  3) Application of artificial neural network and evolutionary computing
  4) Self-organizing system and evolulional hardware

YOKOMICHI Masahiro: PhD, Associate Professor, Email: yokomich@cc.miyazaki-u.ac.jp
  1) Path planning and obstacle avoidance for mobile robot
  2) Self localization and control of autonomous mobile robots
  3) Computer vision and image processing

【Graduate Course in Applied Chemistry】
HIROSE Jun: PhD, Associate Professor, Email: jhirose@cc.miyazaki-u.ac.jp
  1) Structure, function and engineering of redox enzymes
  2) Enzymatic degradation of lignin, 3) Transformation of biomass products into fine chemicals

MATSUMOTO Jin: PhD, Associate Professor, Email: jmatsu@cc.miyazaki-u.ac.jp
  1) Water-soluble porphyrin with bioaffinity,
  2) Photochemical material transformation in micro reaction fields
  3) Preparation and application of photopolymerizable vesicles

MATSUNAGA Naoki: Dr. Eng., Associate Professor, Email: nmatsunaga@cc.miyazaki-u.ac.jp
  1) Development of photocatalyst materials, 2) Development of electrolyte materials for SOFCs
  3) Development of bioceramics for artificial bone

MATSUSHITA Yoh-ichi: PhD, Professor, Email: matsusita@cc.miyazaki-u.ac.jp
  1) Isolation and bioactive assy of chemical components from plant biomass
  2) Synthesis of biological active compounds from naturally abundant materials
  3) Utilization of polymer components in woody and herbaceous plant as bioenergy source

MIYATAKE Munetoshi: Dr. Eng, Assistant Professor, Email: t0g205u@cc.miyazaki-u.ac.jp
  1) Arsenic removal using microorganisms
  2) Production of functional oligosaccharides using microorganisms
  3) Production of useful material from industrial waste using microorganisms
OSHIMA Tatsuya: PhD, Associate Professor, Email: oshimat@cc.miyazaki-u.ac.jp
1) Development of adsorbents and extractants for separation of peptides and proteins
2) Development of novel extractants for separation of rare metals
3) Development of novel cellulosic materials
4) Development of detergent for remediation of soil polluted by heavy metals

SAKAI Go: PhD, Professor, Email: sakai-go@cc.miyazaki-u.ac.jp
1) Development of highly sensitive semiconductor gas sensors
2) Development of electrocatalysts for PEFCs
3) Development of positive electrode materials for secondary batteries

SHIOMORI Koichiro: PhD, Associate Professor, Email: shiomori@cc.miyazaki-u.ac.jp
1) Preparation and application of microcapsules
2) Separation process using solvent extraction technique
3) Preparation and application for separation process of cryogels
4) Preparation of arsenic adsorbent and its application for treatment of ground water

SHIRAGAMI Tsutomu: PhD, Associate Professor, Email: t0g109u@cc.miyazaki-u.ac.jp
1) Photocatalysis of metalloporphyrin complexes
2) Photofunctions of porpyrin/inorganic clay complexes
3) Emission properties of ionic liquids

SUGAMOTO Kazuhiro: PhD, Associate Professor, Email: sugamoto@cc.miyazaki-u.ac.jp
1) Synthesis and biological activities of flavonoid derivatives
2) Biological activities of plant extracts
3) Development of eco-friendly organic synthesis

TSUTSUMI Ken: Dr. Eng., Assistant Professor, Email: tsutsumi@cc.miyazaki-u.ac.jp
1) Development of heterogeneous catalysts
2) Development of photocatalytic reactions
3) Catalytic conversion of biomass

YASUDA Masahide: PhD, Professor, Email: yasuda@cc.miyazaki-u.ac.jp
1) Bactericidal technique using porphyrin photocatalyst
2) Development of photofunctional silica gel beads

YOKOI Haruhiko: PhD, Professor, Email: yokoi@cc.miyazaki-u.ac.jp
1) Environmental protection using microorganisms
2) Production of useful materials using microorganisms

YUI, Toshifumi: PhD, Associate Professor, Email: tyui@cc.miyazaki-u.ac.jp
1) Crystal and molecular structures of polysaccharide and their functions
2) Recognition of proteins with carbohydrate substrates

Information about the faculty is shown in the web page as follows.
http://www.miyazaki-u.ac.jp/tech/engineering_e.html

The faculty member who has the same research field will evaluate Afghan participant’s research proposal.
Based on the results, academic supervisor will be assigned during the period of screening applicants.
8. Message from PEACE participants

Mohammad Hanif Afzali

University of Miyazaki is located in high place near to the Pacific Ocean and surrounded by beautiful green mountains and very nice nature. The university is well equipped with a lot of necessary facilities like: equipped and modern laboratories and lecture rooms, big library, health clinic, equipped gymnasium, athletic fields, swimming pool, dormitory (International house), and with very experienced and kind professors, which is a nice place for academic life and daily life.
I every day attend the lectures with different subjects and learn many new ideas and fulfill the gap of knowledge which I have, and also I am busy with my research and experiment that improving my skill and information.
Once a week I attend the seminar with my lab mate and receive many nice advices from my supervisor that really helps me to improve my way of thinking.
Also, I attend some seminars and presentations which are held in University of Miyazaki.
In weekends I usually study some scientific papers regarding my research topic. Sometimes I go to the beach or mountain climbing with my friends. Also I attend some events or programs which are arranged by university of Miyazaki or Miyazaki international foundation to enjoy my time by making more friends and learning more about Japanese cultures.
To those applicants who are interesting to study in Japan:
If you want to learn in an advanced and equipped university
If you want to live during your study in a place with beautiful nature and
If you want to enjoy in a region with many nice cultures and very good people, so you can select University of Miyazaki

Mohammad Alem Soroush

UOM is situated in southeastern of Kyushu, near to the Pacific Ocean, blessed with beautiful scenery, attractive environment and warm climate. Miyazaki with a pleasant nature and green landscape, is perfect place to study and strengthen Academic skills.
The UOM includes four faculties: Education and Culture, Medicine, Engineering, and Agriculture, and graduate schools (master's course and doctoral course) with all the necessary facilities for advanced academic research and study such as: equipped Laboratories with research equipment and lecture rooms, a library with various books, health clinic, gymnasium, athletic fields, swimming pool, and dormitory. UOM with having very experienced and highly skilled professors in different fields of scientific and academic research, which is a perfect place for academic life and daily life.
Regarding my study, I attend lectures and do my research regularly, and I have seminars and a lot of assignments in laboratory. So I have learned many new ideas and it supports and helps me to improve my academic skills and information on my scientific research and study. One of the most important things for me is that my supervisor always has guidance and advises me about all my academic activities.
Finally, my comments for those applicants of PEACE to study in Japan are:
1) Miyazaki with beautiful nature, green landscape and attractive and pleasant environment and also with having nice dormitory, gymnasium and other facilities, is a perfect place for academic life.
2) UOM with having highly skilled professors in different fields of science and academic research, and all necessary facilities for research and study, is perfect and pleasant space for academic studies.