## 20. Kyushu University (National)

**Study Area**: Engineering

### 1. Basic Information

<table>
<thead>
<tr>
<th>Fields of Study</th>
<th>Specific Research Fields</th>
</tr>
</thead>
</table>

#### 1-1. Graduate School

**URL of Graduate School**

Graduate School of Integrated Sciences for Global Society  

#### 1-2. Program Name

Geological Study on Rare Earth Element Resources in Afghanistan

#### 1-3. Degrees

Master of Science

#### 1-4. Status

Research Student (6~12 months) → Graduate School Student (2 years)

#### 1-5. Credits and years needed for graduation (In the case of Graduate School Student)

30 credits, 2 years

#### 1-6. Classes taught in English

Class: 42/42 (Classes in English/All classes)  
Text: All English

#### 1-7. Desired English Level

TOEFL iBT: 79  PBT: 550  IELTS 6

#### 1-8. Prior Inquiry From Applicants (Before submission of AF)

Must (Not mandatory/Unnecessary)  
Contact: Prof. Yasuhiro Osanai (CC: Administrative Staff)  
[osanai@scs.kyushu-u.ac.jp](mailto:osanai@scs.kyushu-u.ac.jp)  
(CC: [hbddaiga@jimu.kyushu-u.ac.jp](mailto:hbddaiga@jimu.kyushu-u.ac.jp))

#### 1-9. Message for Applicants

Research Student and Graduate School Student can study Rare Earth Elements (REE) resource in Afghanistan based on geology. Of course, other geological works are mostly welcome. The data will be obtained using the most advanced analytical instruments at this faculty. Graduate School Student can select the classes from various fields such as geology, petrology, mineralogy, sedimentology, geochemistry and geophysics.

### 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 &quot;study&quot;</td>
<td>Not necessary</td>
</tr>
</tbody>
</table>
| (2) Availability of Japanese language class | Available  
Free Basic Japanese lesson |
2. Features of University

Kyushu University is located in Fukuoka city, which is the largest city of Kyushu island, Japan. The history of Kyushu University dates back to 1903 when Fukuoka Medical College was established as the foundation of Kyushu Imperial University. (The college was legally attached to Kyoto Imperial University at that time). In 1911, Kyushu Imperial University, along with the Colleges of Medicine and Engineering, were established. Since then various reforms have been made to the higher education system in Japan, such as the introduction of a new educational format after World War II and the reorganization of national universities to University Corporations in 2004. The total number of students currently amounts to 18,588, while the faculty members number 2,186. International exchange programs are also greatly encouraged at Kyushu University. With this in mind, the university accepts many overseas students each year. At present there are more than 1,500 international students from about eighty countries studying here.

See the following URL for more detail; [http://www.isc.kyushu-u.ac.jp/g30/aboutus.html](http://www.isc.kyushu-u.ac.jp/g30/aboutus.html)

3. Features of Graduate School

1) About Graduate School of Integrated Sciences for Global Society

The Graduate School of Integrated Sciences for Global Society (ISGS) is a new institution established in 2014, which is progressively recognized from the Graduate School of Social and Cultural Studies (SCS) established in 1994. The ISGS is a unique interdisciplinary and international institution, offering a broad range of courses across the natural sciences, social sciences, and
humanities. The ISGS aims to provide professional training for the students determined to pursue a career in academic research. But it also accepts as students those who have previous working experience in a variety of fields and have the intention of improving themselves though academic research. Determined to follow the policy of diversification, the ISGS welcomes anyone who aims at a higher academic goal, regardless of age, sex, cultural and linguistic background, or nationality. Over 4000 students studied in the previous SCS during these 18 years and right now there are 121 students in the master program and 142 students in the doctoral program, where more than 50% students are from overseas. Our education goal is to foster technical experts and researchers who will support our society with a global prospective and possess high ethical standards. We hope our graduates have not only technical knowledge but also a deep understanding and great awareness about society and the environment. Furthermore, while playing an active role in international society, our graduates should have a well-rounded education such as understanding different cultures and abilities to communicate in various situations.

See the following URL for program overview of the faculty;

2) Major research fields of Division of Earth Sciences

The basic of Division of Earth Sciences in the Graduate School of Integrated Sciences for Global Society is field geology focused on various materials of the earth. We use various methods including petrology, mineralogy sedimentology, paleontology, geochemistry and geophysics from various geological materials such Archean rocks to the present sediments to realize the evolution of the earth. Whole earth including even equatorial jangle, freezing polar region and rocky desert are now our target area to obtain “Discovery”, the most important driving force for science.

The current research interests in our division are as follows:
1. Formation and growth of Asian continental crust
2. Formation and dispersion of the Gondwana and Rodinia supercontinents
3. REE resource in Asia and Africa
4. Major and trace elements concentration and crystallography in mineral deposit
5. Synthetic studies of Japanese metamorphic belts
6. Quaternary volcanic activities in East Asia
7. Magma and fluid activities related to subduction zone
8. Geophysical and geological studies of volcanic and regions and geothermic regions
9. Earthquake geology and geophysics
10. Formation of primitive continental crust from Magma Ocean
11. Synthetic studies of Antarctic geosciences

All of our members including staff, post-doctoral fellows, and graduate students have each research field, but all are based on field geology. Most of them now focus on the field in foreign abroad, which is as follows;
3) The other collaboration of Division of Earth Sciences

Division of Earth Sciences recently performs the collaboration works with History, Archeology and Biology divisions in our faculty, and we are now making new academic study fields that integrate the humanities and science.

Additionally, the Graduate School of Integrated Sciences for Global Society has a collaborative division based on geology “Division of Polar Region Environment” which is collaborated with National Institute of Polar Research (NIPR), Japan. Students can have some lectures performed by professors in NIPR. If students graduated muster degree at this graduate school and got doctor degree somewhere in the future, they may be one of the candidates to come to Antarctica through Japan Antarctic Research Expedition (JARE).

See the details of Japanese Antarctic activities; http://www.nipr.ac.jp/english/antarctic-expedition.html

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

Graduate School Student (2 years)

Master course of two years program consists of advanced classes and research project. The classes are composed of lecture-style, presentation-style and geological practice in the field. A student needs to obtain a total of 30 credits to complete the course during two years. At the same time, a student needs to conduct his/her research project and write Master thesis.
All students to be admitted in the Graduate School of Integrated Sciences for Global Society through this program should perform the research project at Division of Earth Sciences. Any kinds of data will be obtained using following the most advanced analytical instruments. All instruments have English manuals for foreign researchers and students. A student has completed master's program shall be conferred a Master degree of Science.

Division of Earth Sciences provides several courses for understanding the comprehensive Earth Sciences as described below, in which a student should select suitable courses to study the REE resources. In these courses, you can study basic and advanced subjects such as Field Geology, Structural Geology, Resource Geology, Geobiology, Igneous Petrology, Metamorphic Petrology, Geochemistry, Mineralogy, Geochronology, Geophysics, and Marine Geophysics, depending on the course you select under the discussion with your Supervisor.

1. Mining Geology
   Geology for mineral exploration in mine and surrounding region
   Evaluation of the grade for the ore deposit
   Mineralogy and petrology of mine
   Geochronology of mine
   Fluid inclusion and activity of hydrothermal systems
   Metamorphic and metasomatic processes of mine
   Earth history and related metallogeny

2. Engineering Geology and basic Geology
   Geological exploration for mineral deposit associated with igneous and metamorphic rocks
   Geological and geophysical exploration for geothermic and volcanic regions
   Structural geology and geophysics of fault zone as well as earthquake geology
   Environmental geology
Geochemistry for underground water
Polar region geology and geophysics
Geology and petrology in geologically obscure region in the world
Supercontinent history

3. Geographical Information System
This study field is available collaborating with Geography group

During Research Student (Research period: 6 months or 1 year)
• Each research student is requested to make a study plan of each semester approved by their Supervisors.
• The plan must include all the subjects of their intends to take both lectures and seminars during one semester.
• Research students keep training for geological field work, making polished thin sections for microscope work, microscopic observation, and how to use the several analytical instruments.
• Research students need prepare to take the entrance examination for Master Course to be held at the next year.

5. Academic Schedule

During Research Student
Entrance examination for Master Course (select one): Late February, 2015 (for students to be admitted on April 1, 2015) or Early June, 2015 (for students to be admitted on October 1, 2015)

First year for Graduate School Student (in the case for Spring Entrance, 2015)
Registration: March, 2015
Entrance Date: April 1, 2015
Entrance Ceremony: Early April, 2015
Orientation: Early April, 2015
Health check: Early April, 2015
1st semester: April 1–July 31, 2015
Class start: Early April
Submission of tentative proposal for Master thesis: June 1
Summer Holyday: August–September, 2015
2nd semester: October 1, 2015–March 31, 2016
Class start: Early October
University Festival: Late November
Submission of revised proposal for Master thesis: Early December
Winter Holiday: December 26–January 6
Final class: Late February
Spring Holiday: March–Early April, 2016
Second year for Graduate School Student (in the case for Spring Entrance, 2015)

Dates of the health check, semesters and holidays are same to first year. No need to submit the thesis proposal. The important dates are as follows:

- Presentation of interim results for Master thesis: September, 2016
- Submission of Master thesis: Early January, 2017
- Final presentation of results for Master thesis: Early February, 2017
- Graduation Ceremony: Late March, 2017

6. Facilities

The international students who will be admitted and enrolled at graduate schools located in Ito Campus are eligible.

Ito campus has two kinds of campus housing: Dormitory I is for single, and desk, chair, bookshelf, bed, shoes closet, closet, mini-kitchen (with small fridge), air conditioner, bath/washroom (with bathtub, shower, toilet, & sink), interphone, TV terminal, and internet terminal are available. Dormitory II has large rooms shared by two students or by couple. All facilities described above are also provided.

Ito campus also has general library, health center, convenience stores, bookshops, prayers space, several restaurants and cafeterias. Some of the restaurants and cafeteria provides Halal foods as well. Kyushu University International Student and Researcher Support Center is also available for the foreign students (http://www.isc.kyushu-u.ac.jp/supportcenter/en/).

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

All staffs (Professors, A/Professors and Research Fellows) in the department can supervise Afghan participants. Their laboratory and names are as follows:

- Geology, Petrology and Geochemistry: Prof. Yasuhide OSANAI (Mr.), Assist. Prof. Nobuhiko NAKANO (Mr.), Assist. Prof. Tatsuro ADACHI (Mr.)
- Structural Geology and Geobiology: Prof. Akihiro KANO (Mr.), Research Fellow Yoshihiro KAKIZAKI (Mr.)
- Mineralogy: Assoc. Prof. Kiyotaka ISHIDA (Mr.), Assoc. Prof. Yoshihoro KUWAHARA (Mr.)
- Geochemistry: Prof. Itsuro KITA (Mr.)
- Geophysics: Assoc. Prof. Masao OHNO (Mr.)
- Petrology and Geochronology: Prof. Yoichi MOTOYOSHI (Mr.), Assoc. Prof. Tomokazu HOKADA (Mr.)
- Marine Geophysics: Prof. Yoshihumi NOGI (Mr.)
8. Message from PEACE participants

Massage from the 3rd batch JICA-PEACE project participant for the fourth batch participants

Date: 2013-12-03
I am Said Amin Hashimy I was assistant Prof in Geology Department, Geosciences Faculty of Kabul University. I applied for the 3rd batch of JICA –PEACE project scholarships. Hopefully after tests, documentation process and TV interview by Japanese’s Universities professors I accepted for this scholarship. We came to Japan on 23rd of September 2013.
Now I am studying at Division of Evolution of Earth Environments, Graduate School of Integrated Sciences for Global Society, Kyushu University that is one of the 5th biggest national universities in Japan. The university has allots of necessary facilities such as equipped and modern laboratories, lecture rooms, big library, equipped gymnasium, health clinic and etc. The laboratory, which I am studying, is one of the well equipped and modern laboratories in Japan and I can say in the world. All kinds of facility we have here, our laboratory has the capability to analyze the rocks samples with different analytical methods like chemical composition, mineralogical composition, age determination and etc with different analytical machines such as LA-MC-ICP-MS, Laser Raman, XRF, FE-EPMA, modern Polarizing and reflected light microscopes and etc. All the staffs in our laboratory knows English, they are very kind and hospitable, they have very friendly behavior with me so it interested me day by day to learn more and well. My professor whom I am studying under his guidance is one of the best Scientist and Professor in the world and ever I have met. Before coming to Japan I read his publication and research on the internet and scientific websites so it interested me to study under his guidance. He is very kind, hospitable and always wants to help us and taking care of us. It is 3months that I am here just I can feel the change of my knowledge in this short time. We have different studying program: Classes, seminars, laboratory works, field excursion, discussion, meeting and etc… and I am very happy that I am here. Kyushu Island has good places that we can go to see during the vacations and holidays. On holidays usually I am going for shopping, sometimes mountain climbing, going to beach and parks with my friends. Living in Japan is not difficult as I heard before. You can easily get habit with fresh and green environment that Japan has. Any kinds of food you can find here from the super markets and restaurants. Halal food is available in the cafeteria of the university. Japanese people are kind and they have good behavior with foreigners.
The transportation system is well and you can easily know everything about. Taxi, bus and train are available everywhere. When you come to Japan, Japan has a system that automatically you will find yourself under that education system.
Therefore as a third batch participant and student of Kyushu University, I can strongly recommend you to apply for studying in Japanese Universities especially Kyushu University and it is a good opportunity for those who wants to study abroad.

Said Amin Hashimy
Student at Kyushu University
Email: hatamhashimy@yahoo.com