

AY2020

Kyushu University Platform of
Inter/Transdisciplinary Energy Research
Support Program for Doctoral Students

Application Guidelines



June 2020

1. Purpose

The Kyushu University Platform of Inter/Transdisciplinary Energy Research (Q-PIT) was established in accordance with the Kyushu University Action Plan. This platform aims to resolve global energy issues in association with promising researchers from various fields, from humanities and social science to natural sciences. Through the resolution of these issues, Q-PIT also aims to create a one-stop solution for energy research and education, and transdisciplinary projects to realize a future energy society that enables sustainable development. As a gateway to success, this program is targeting identification and support of doctoral students who will play major roles in future energy research in society.

2. Details of Support

[Details of Application]

Projects will be accepted in the following five research areas:

- Area 1: Energy Technology
- Area 2: Energy Systems and Management
- Area 3: Environmental Energy Issues
- Area 4: Energy Economy, Society, and Policy
- Area 5: Other Energy Issues

* This support is aimed at research projects in all energy-related fields, from humanities to social sciences to natural sciences. We recommend that you keep an open mind when applying, and refer to the “List of academic fields and keywords” in the appendix.

* Please describe the contents of your research plan clearly and avoid specialist terms, so that it can be understood even by reviewers outside your specific field.

This research is aimed at developing the concept of a future energy society of around the year 2100, which is one of Q-PIT's visions. The proposals are expected to be original and ambitious, with an aim to realize a futuristic energy society that enables sustainable development.

[Eligibility and Requirements]

* Support is available to Doctoral students, as well as Master's students expected to join doctoral programs.

* If you have been previously supported by this Doctoral Support program twice, you are not eligible to apply a third time.

* First-time applicants will be given priority over previous awardees in the case of tied ranking.

[Number of Awards and Amount of Support]

Gold Award:	~1	(500,000 yen)
Silver Award:	~2	(400,000 yen)
Bronze Award:	~5	(300,000 yen)
Encouragement Award:	~20	(200,000 yen)

[Expenses for Research and Further Education]

According to the rank of each award, expenses for research and further education will be offered to the laboratories to which the students who receive the award belong.

Please note that there are no restrictions on the use of research and education incentives, but from the perspective of preventing the spread of new coronavirus infections, efforts must be made to properly execute the expenses under the supervision of the affiliated laboratory.

* Please note that there is a limit to external support funds for research fellowships for young scientists at the Japan Society for the Promotion of Science. Any amount of

support in this area will be within that limit.

[Support Period]

Until the end of AY 2020

3. Number of Adopted Research Projects and Date of Allocation

- (1) The number of adopted and awarded projects may be adjusted according to the budget.
- (2) In principle, support expenses for the adopted and awarded research projects are allocated as of April 1, 2020.

4. Application Procedures

- (1) Application Deadline: **1:00PM Monday, July 6, 2020** (proposals missing the deadline will be disregarded)
- (2) Documents must be submitted through the administrative office of the applicant's department.
 - a. (FORM1)“Application Form” [EXCEL] , (FORM2)“ Research Proposal” [WORD]
 - b. (FORM3)“Application Form of the Applicant’s Department” [EXCEL]
(to be completed by the administrative staff of the applicant’s department).
- (3) Contact for application documents:
Administrative Office/Support Office
Platform of Inter/Transdisciplinary Energy Research (Q-PIT)
<http://q-pit.kyushu-u.ac.jp/>
E-mail : eneken@jimu.kyushu-u.ac.jp TEL: 092-802-6644 ((extension: 90-7196)

5. Requirements after adoption

- (1) Public Relations
Awardees must be active in providing publicity for this program, for instance by openly specifying that the research has received support under this program in presentations, posters, and academic publications. Moreover, awardees must actively cooperate with the efforts of Kyushu University (such as participating in exhibitions, seminars and symposiums) to make the research findings publicly available. When the project is adopted, awardees must give poster presentations in events hosted by Q-PIT, such as Energy Week.
The form of participation in events will be decided according to the infection status of the new coronavirus.
- (2) Application for JSPS Program
Doctoral Student awardees those who are eligible to apply must apply for the research fellowship for young scientists of the Japan Society for the Promotion of Science in the year of the award, or the following year.

6. Report on Research Achievements

For adopted research proposals, at the end of each academic year, recipient researchers must report on the progress and results of their research by completing and submitting the “Report on Achievements” form by the due date (to be announced by Q-PIT). In addition, an “Expenses Report” shall also be submitted by the administrative staff of the applicant’s department.

7. Other Items

Patentable inventions created in the course of research conducted with support from this program will be handled in accordance with Kyushu University Intellectual Property Handling Rules (Kyushu University Rules No. 93, AY 2004).

For more information, refer to the website of the Academic Research and Industrial Collaboration Management Office:
<https://airimaq.kyushu-u.ac.jp/ja/teacher/invention.php>

<Appendix>

List of suggested academic fields and keywords of specialized fields pertinent to research areas (1-5)

Area 1: Energy Technology

- Relevant Fields: Science, Engineering, Mathematics, Chemistry, Materials Science
- Specialized Keywords: Hydrogen Production; Hydrogen Storage; Water Electrolysis; Fuel Cells; Batteries; Energy Storage Materials; Energy Conversion Materials; Photovoltaics / Solar Materials

Area 2: Energy Systems and Management

- Relevant Fields: Information Technology, Systems Engineering, Control Engineering, Engineering Management, Process System Engineering, Energy System Engineering, Chemical System Engineering, Mechanical Engineering, Electrical Engineering; Renewable Energy Utilization Systems; Hybrid Renewable Energy Systems
- Specialized Keywords : Data Analysis, Modeling, System Integration, Energy Storage Systems, Local Energy Systems, Low-carbon Society, Techno-Economic Assessment

Area 3: Environmental Energy Issues

- Relevant Fields: Agricultural Sciences, Environmental Science,
- Specialized Keywords : Generation of Bio-Derived Energy, Measures Against Global Warming

Area 4: Energy Economy, Society, and Policy

- Relevant Fields: Energy Economics, Resource Economics, Environmental Economics, Sociology, Energy Policy
- Specialized Keywords : Smart Farm, Energy Issues in Developing Countries, Energy-Saving, Energy Creation, and Energy Storage Technologies, Distributed Energy Society

Area 5: Other Energy Issues

- Other Fields