

AY2019

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

Application Guidelines



June 2019

## 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 young researchers and doctoral students who will play major roles in future energy research in society.

## 2. Details of Support

### I . Support for Young Researchers

#### [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.

#### [Eligibility and Requirements]

\* Support is available to Young Researchers under 35 years of age as of April 1, 2019.

\* Young Researchers can include Faculty Members, Post-Doctoral Researchers, and Research Fellows.

\* If you have been previously supported by this Young Researchers 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 Projects to be Adopted]      ~10

[Available Funds]                              0.5 to 1 million yen per project

#### [Regulations Regarding Expenses]

(1) Covered Expenses: Research expenses that can be covered include facilities/equipment, supplies, travel expenses, honorariums and other expenses required to carry out research. If facilities and equipment expenses for the research plan exceed 50 percent of the total expenses, the applicant must account for the necessity of such expenses in implementation of the research, by specifying it in the research plan. Research plans aimed only at purchasing facilities and equipment, etc. will not be adopted.

(2) Expenses Not Covered: The following expenses will not be covered, even if they are required for research: (i) Expenses related to buildings and other facilities. (ii) Purchases of office facilities/equipment such as desks, chairs, and copying machines that would be normally purchased by respective departments. (iii) Personnel expenses used to employ staff

such as administrative assistants

### **[Other Requirements]**

- (1) When applying for this program, the Young Researcher is required to obtain the approval of their project leader or supervisor.
- (2) A researcher cannot apply as the principal investigator for several categories at the same time during the same academic year. However, they can participate in as a co-researcher in another applicant's project.

### **[Support Period]**

Until the end of AY 2019

## **II. Support for Doctoral Students**

### **[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:	~4	(300,000 yen)
Encouragement Award:	~14	(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. These may include travel expenses for awardees to present in an academic conference or workshop related to their research.

\* 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 2019

**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, 2019.

**4. Application Procedures**

(1) Application Deadline: 1:00PM Monday, July 8, 2019 (proposals missing the deadline will be disregarded)

(2) Documents must be submitted through the administrative office of the applicant's department.

**I. Support for Young Researchers**

- a. (FORM4) "Application Form" [EXCEL file] (to be completed by the administrative staff of the applicant's department).
- b. (FORM1) "Research Proposal" 1 [EXCEL file] "Research Proposal" 2 [WORD file]
- c. (FORM2) "Letter of Approval" from the project leader or supervisor. (Seal)[PDF file](Please send the original "Letter of Approval" to Q-PIT.)

**II. Support for Doctoral Students**

- a. (FORM4) "Application Form" [EXCEL file] (to be completed by the administrative staff of the applicant's department).
- b. (FORM3) "Research Proposal" 1 [EXCEL file] "Research Proposal" 2 [WORD file]

(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](mailto:eneken@jimu.kyushu-u.ac.jp)

TEL: 092-802-6644 (internal: 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.

(2) Application for Competitive Funding Programs, etc.

Young Researcher awardees must apply for Grants-in Aid for Scientific Research (Kakenhi) or other competitive funding programs in the academic year of adoption or in the following academic year. This rule does not apply to those researchers who have already acquired such funding and will be limited by restrictions on duplicate funds if they newly apply for the

program. The rule also does not apply to researchers who are not eligible to apply for other competitive funding programs. Doctoral Student awardees 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. This rule does not apply to students who have already been adopted in this JSPS program.

### (3) Changes in the Research Plan

A “Statement of Reasons for Change” should be written and submitted to the Support Office to obtain approval in the following cases:

- I .If the awardee needs to abandon their project due to transfer to another institute, resignation, or some other reason.
- II . The implementation of the research plan is proven too difficult.
- III. Other than above, when the research plan changes significantly.

### (4) Reallocation of Expenses (Support for Young Researchers)

When reallocating over 50% of the total allocated expenses from one category to another, please submit the “Application for Approval for Change of Breakdown of Research Expenses” to the Support Office and obtain approval in advance. Reallocation cannot be undertaken until the approval is obtained.

## 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.

## 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**