

**FY2019 International Research Organization for Advanced Science and Technology (IROAST)**  
**Application Guidelines for Young Faculty Members for International Joint Research**

Partially revised on October 10, 2018  
Partially revised on September 18, 2019

1. Purpose of the Program

IROAST started its “Young Faculty Members for International Joint Research” Program to send outstanding young researchers in the science and technology fields to overseas research institutions with the goal of cultivating competent young international researchers and improving joint international research capabilities.

2. Eligibility

Young faculty members (assistant professor, lecturer, associate professor) in the Faculty of Advanced Science and Technology (FAST), Institute of Pulsed Power Science (IPPS), Magnesium Research Center (MRC), Center for Water Cycle, or Marine Environment and Disaster Management (CWMD) who work in one of the following major research areas.

- (1) Nano Material Science covers a wide area including the development of organic functional materials such as graphene oxide nano-sheets, catalysts and metal materials. It also includes the development of innovative materials under extreme conditions.
- (2) Green Energy includes the development and utilization of renewable resources such as geothermal, water, and bio-mass.
- (3) Environmental Science covers a wide area including the protection and evaluation of hydrospheric and atmospheric environments, analysis of climate change, and the protection of underground water and shallow sea areas.
- (4) Advanced Green Bio covers a wide area for interdisciplinary life sciences relating to chemical biology, molecular biology, medicine, pharmacy, agriculture (such as the development of drug delivery systems), micro-CT applications, informatics applications, and so on.
- (5) In addition to the above, research areas that are expected to become new major research areas for IROAST in the next phase, such as machine learning, big data, and AI.

3. Appointment term

- (1) Three years (Four years as necessary)
- (2) Regardless of (1) above, the term must end on March 31<sup>st</sup>, 2022 (the last day of IROAST’s 1<sup>st</sup> phase) due to organizational management.

#### 4. Period of Overseas Stay

The Young Faculty Member for International Joint Research must conduct joint research at an overseas institute according to the table below.

	Overseas experience in the past	Period of overseas stay as Young Faculty Member for International Joint Research
a	None	Must be one year in total
b	Less than one year in total	Must be one year including the period of previous overseas stay. In case that the overseas period, including the past period, in total is longer than one year, stay of maximum one year in total can be approved depending on the Member's wish and his/her affiliation's approval.
c	One year or longer in total	Stay of maximum one year in total can be approved depending on the Member's wish and his/her affiliation's approval.

#### 5. Expenses Supported by IROAST

- (1) Travel expenses for the member according to university regulations and within the specified range of IROAST's budget.
- (2) In principle, the member's department (or major educational program) should handle the member's classes while he/she is overseas. If necessary, IROAST will pay for a substitute part-time lecturer. In all cases, the member's department should perform the administrative procedures regarding the selection and administration of a substitute.

#### 6. Number of Awards

A small number of people per fiscal year.

#### 7. Application Procedures

The member must submit the following two documents to the director of IROAST by campus mail after gaining approval from 1) the head of his/her department (or major educational program) and 2) the head of the affiliated research organization (target organization department head).

- (1) Application form (Form 1)
- (2) Letter of acceptance (emails are also acceptable) from the host researcher at the overseas institution

#### 8. Selection and Notification of Results

The selection will be made by the IROAST Steering Committee. The member and his/her department head will be notified of the result.

#### 9. Publication of Research Achievements and Activity Reports

- (1) Members must submit at least three international joint papers to distinguished international journals in every fiscal year during the term of their appointment.
- (2) IROAST publicizes members' research achievements that are eligible for disclosure via the IROAST website and other means.
- (3) Members must submit an "Activity Report (Form 2)" by the end of every fiscal year during the term of their appointment.

#### 10. Other

- (1) Members must continue joint research with the partner institutions after their appointment term.
- (2) The target department should, to the extent possible, make arrangements to reduce the member's workload (e.g., decrease committee duties) so that they can focus on their research as much as possible.