

# Science and Technology Cooperation on Global Issues

Improve the development of human resources and self-reliant research capability of research institutions of developing countries by promoting international joint research for acquiring new knowledge and utilizing research outcomes for the benefit of society with a view to resolving global issues

## Background

In recent years, the importance of international cooperation utilizing Japanese science and technology for global issues in vulnerable developing country has been increasing. Global issues, including the environment and energy, infectious diseases and natural disasters, are difficult to resolve by one country or region alone and need to be handled by the international community as a whole.

In order to tackle these global issues, and to support self-reliant, sustainable development in developing countries, Japan will provide assistance in terms of applying and transferring technology from Japan. In addition to this, joint research will be carried out through collaboration between universities and research institutes in Japan and developing countries, with the aim of developing and utilizing new technologies and gaining new knowledge. Such an approach is necessary because it enables issues to be resolved and at the same time works to improve science and technology standards and overall capabilities at universities and research institutions in developing countries.

To respond to these issues, JICA in fiscal 2008 started Science and Technology Cooperation on Global Issues, which consists of the following two programs.

- (1) Science and Technology Research Partnership for Sustainable Development (Project Type Technical Cooperation)
- (2) Dispatch of Science and Technology Researchers\* (Dispatch of Individual Expert)

## Science and Technology Research Partnership for Sustainable Development (SATREPS)

### 1. Overview

This program is designed to promote international joint research in which both Japanese research institutions and those of developing countries work together based upon the social needs in developing countries under the framework of JICA project type Technical Cooperation. Its aims are to acquire new knowledge and to utilize research outcomes to the benefit of the society with a view to resolving global issues such as the environment and energy, biological resources, disaster prevention, and infectious diseases.

### 2. Objectives

- (1) Improve the development of human resources and self-reliant research capability of developing country.
- (2) Build a framework for sustainable activities to contribute to solutions for global issues.
- (3) Acquire new knowledge leading to resolving global issues and advancing science and technology.

## 3. Implementation System

SATREPS is carried out through collaboration with the Japan Science and Technology Agency (JST). Institution the proposer (Principal Investigator) is affiliated with and JICA collaborate to carry out research proposal which was selected in JST's invitation for application of universities and research institutions. JICA provides support for expenses for the activities in partner countries (dispatch of experts, acceptance of counterpart researchers in Japan, provision of equipment, expenses for experts' activities in partner countries, etc.) under the framework of JICA project type Technical Cooperation, while JST provides support for expenses in Japan and third countries under the framework of competitive funds for the promotion of science and technology.

## 4. Eligible Fields of Research

For fiscal 2013, there was an invitation for applications of research proposals in six areas: the environment, low-carbon society, biological resources, disaster prevention, infectious diseases, and interdisciplinary areas.

## Dispatch of Science and Technology Researchers\*

### 1. Overview

This program is designed to dispatch the most suitable researchers from Japanese research institutions to developing countries for international joint research and the development of human resources based upon the needs of developing countries under the framework of JICA Technical Cooperation experts (dispatch of individual experts).

### 2. Objectives

- (1) Support capacity building for developing countries through international joint research.
- (2) Create and energize foundations for exchanges between Japanese research institutions and those in developing countries, provide support for the formulation of future joint research plans.

### 3. Implementation System

This program is carried out through collaboration with the Japan Society for the Promotion of Science (JSPS), which makes effective use of its network of researchers and academic institutions in Japan, and the Ministry of Education, Culture, Sports, Science and Technology (MEXT) and JSPS will select researchers.

### 4. Eligible Fields of Research

This program covers all fields of science and technology. There are no restrictions other than the requirement for resolving global issues.

\*Dispatch of Science and Technology Researcher program has been terminated until fiscal 2012.

