Science, Technology and Innovation Policy in Japan

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in France

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OVERVIEW OF SCIENCE, TECHNOLOGY AND INNOVATION POILCY IN JAPAN

Science, Technology and Innovation Poilcy in Japan

The 4th Science and Technology Basic Plan (19th August, 2011)

- 5 years mid-term plan (FY2011-2015)
- Promotion of R&D to address societal and economical issues
- Basic principles

  (i) Integrated promotion of "science, technology and innovation (STI) policies"

  (ii) Greater priority to "roles of human resources and their supporting organizations"

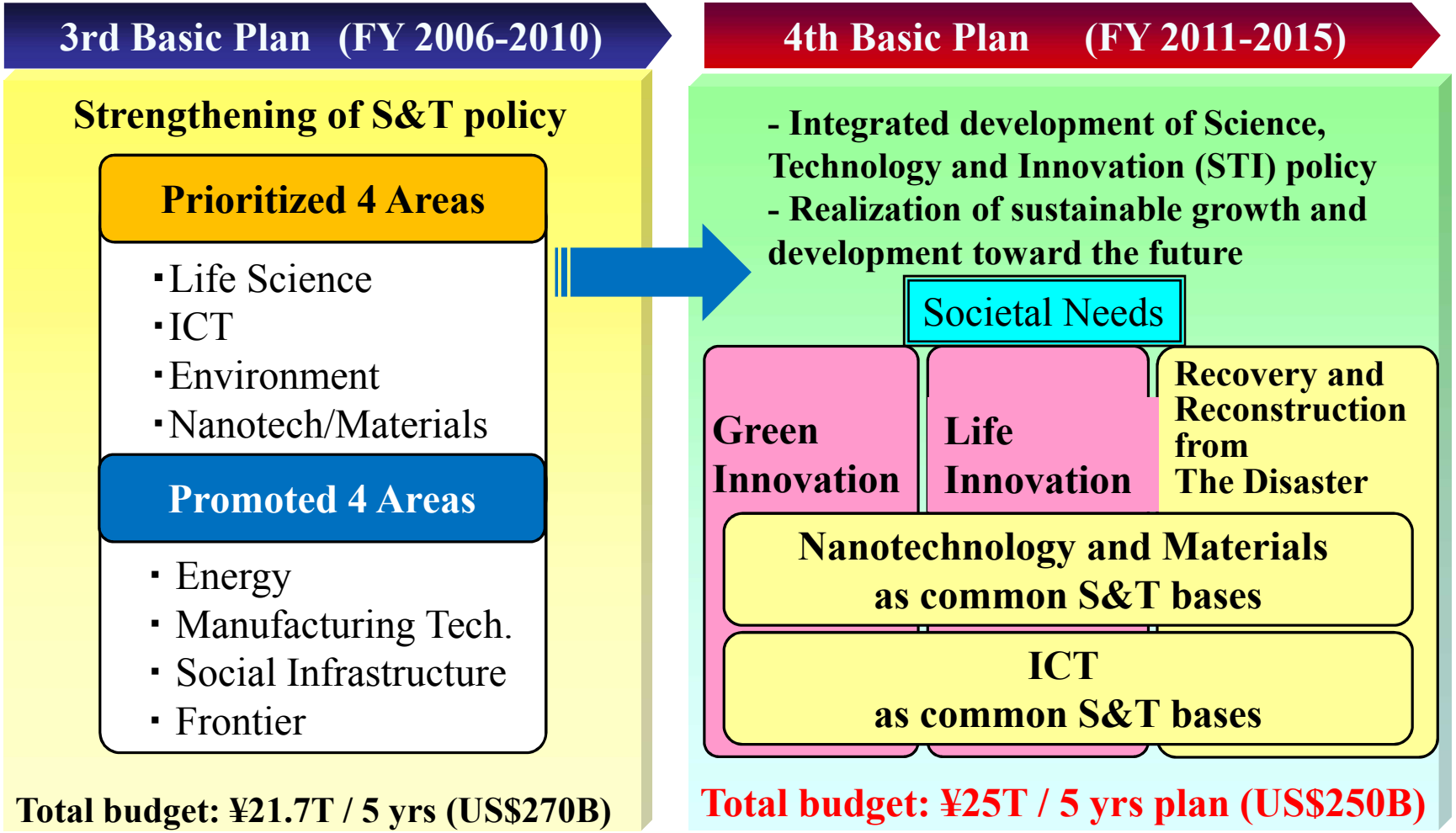
  (iii) Implementation of the "STI policy created together with society"

Comprehensive Strategy on Science, Technology and Innovation (7th June, 2013)

- Long-term vision + Short-term Action plan to tackle toward realizing the shape of the nation to be attained in 2030.
- Mission-oriented STI policy
- Create "The world's most innovation-friendly country"
- Acting "Smart", Implementing "System thinking", Thinking "Global"

The 4th S&T Basic Plan

Shift from "S&T-pushing" to "Needs-pulling" Policy
Change from **8 Areas** to **3 Societal Needs**



Comprehensive STI Strategy

➢ Shapes of the nation to be attained in 2030

Economy that maintains the world-top-class economic strength and develops sustainably

Society where the people can enjoy wellness, security and safety

Economic society that harmonizes with the world and contributes to the progress of humankind

➢ Five immediate policy issues of STI policies

1. Realization of **a Clean and Economical Energy System**

2. Realization of **Healthy and Active Ageing Society** as a top-runner in the world

3. Development of **Next Generation Infrastructures** as a top-runner in the world

4. **Regional Revitalization** taking advantage of the regional resources

5. Early **Recovery and Revitalization** from the Great East Japan Earthquake

Comprehensive STI Strategy

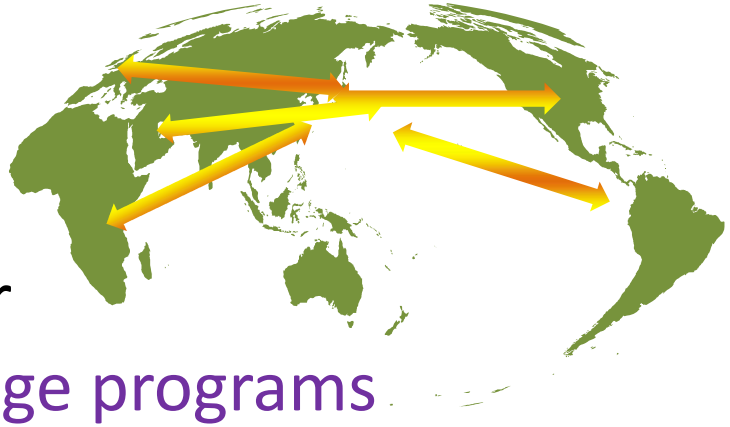
➢Toward innovation-friendly environment

Focused policy challenges	Focused measures
Nurturing the sprouts of innovation	(1)Establishing an environment which enables diverse people to take the leadership in enterprises, universities and R&D corporations ➡ Diversity
	(2)Reinforcing universities and national research institutes as international hubs ➡ Attractiveness
	(3)Restructuring systems of competitive funds ➡ Balance
Activating the innovation system	(4)Reinforcing industry-academia-government collaboration and inter-ministry collaboration ➡ Cross-border
	(5)Promoting mobility of human resources ➡ Mobility
	(6)Improving research support system ➡ Teamwork
Fructifying innovation	(7)Activating private initiative engaging in new businesses ➡ Start-ups
	(8)Promoting regulatory reform ➡ Enabling challenges
	(9)Promoting strategic approach for international standardization and IP ➡ Rule making

INTERNATIONAL COOPERATION

International Activities

Activities for International Network



- Support for individual researcher
  - Fellowship
  - Exchange programs
- Support for research institution
  - Accelerate the Circulation

Activities for S&T Diplomacy

- Joint research programs
  - SICORP
  - SATREPS

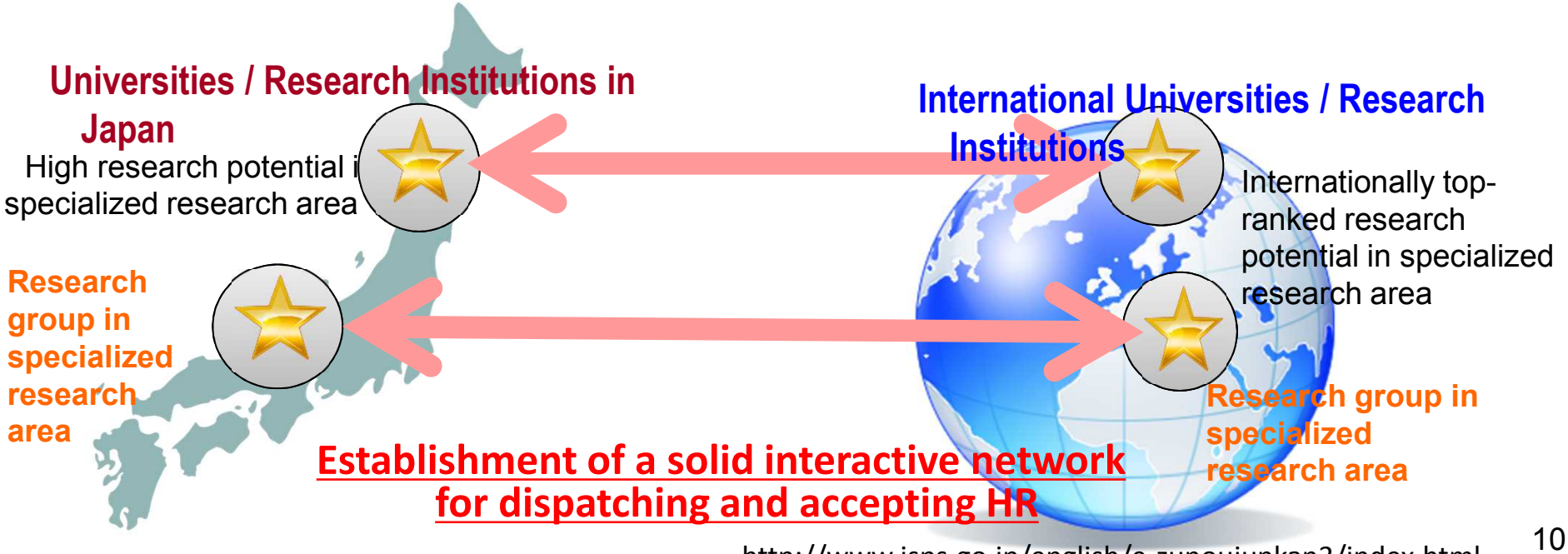
Renewal !

- Breakthrough innovation
- Resolve global issues

Activities for International Network - 1

☐ Program for Advancing Strategic International Networks to Accelerate the Circulation of Talented Researchers [implemented by JSPS]

- Support research institutions in Japan (including Universities)
- Establish a solid network between internationally top-ranked research institutions
- Dispatch & Accept researchers to/from internationally top-ranked research facilities for a long term
- Based on international strategy of research institutions



http://www.jsps.go.jp/english/e-zunoujunkan3/index.html

Activities for International Network - 2

Postdoctoral Fellowship for Research Abroad

Since 1982

FY 1982 - 2012: 2,261 persons in total
FY2013: 441 persons / 22 countries

http://www.jsps.go.jp/english/e-ab/index.html

Tenure: 2 years
Financial Support: Roundtrip airfare
Stipend (3.8-5.2 million JPY / year)

Fellowship Program to Japan for Overseas Researchers

http://www.jsps.go.jp/english/e-fellow/index.html

[implemented by JSPS]

For Networking with/among Former JSPS Fellows…

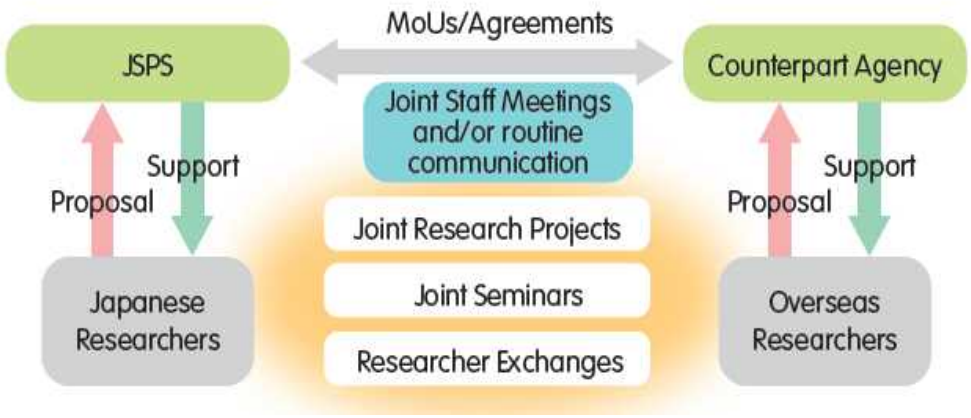
JSPS Fellow Alumni Associations

-BRIDGE Fellowship Program for revisiting Japan
-Seminars and symposia
-Information on website or by newsletters
-Pre-departure seminar for new fellows

Activities for International Network - 3

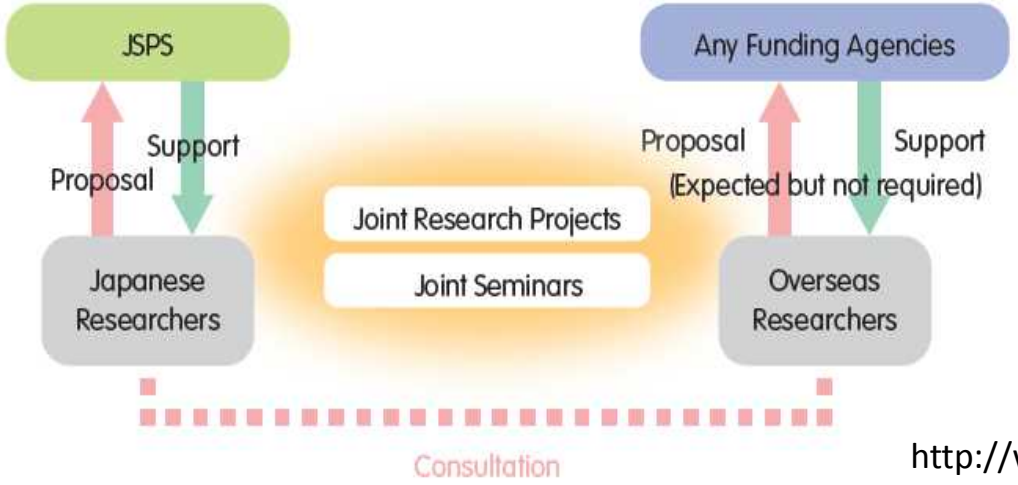
Bilateral Cooperation[implemented by JSPS]

Joint Research Projects and Seminars based on agreements with overseas funding agencies



[Joint Research Projects]
Term: 1-3 years
Annual Support:
¥1-5 million/project
[Joint Seminars]
Term: Within 1 week
Support: ¥1.2-2.5 million/seminar
[Researcher Exchanges]
Term: 14 days-2 years
Support: Roundtrip int'l airfare, maintenance allowance

Open Partnership Joint Projects and Seminars



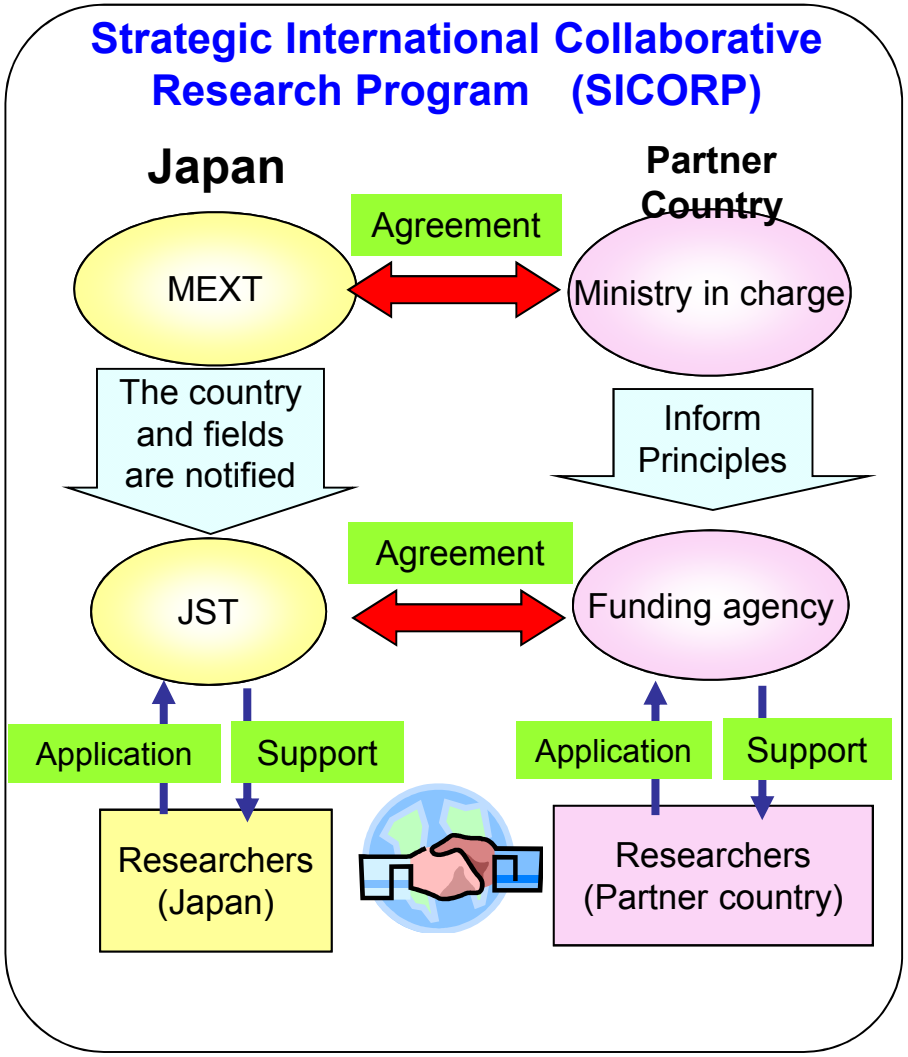
[Joint Research Projects]
Term: 1-2 years
Annual Support:
Up to ¥2.5 million/project
[Joint Seminars]
Term: Within 1 week
Support: Up to ¥2.5 million/seminar

http://www.jsps.go.jp/english/e-bilat/index.html

Activities for S&T Diplomacy - 1

Mutual cooperation in advanced S&T fields

Strategic International Collaborative Research Program (SICORP)



3 Types of the renewed SICORP

Type1: Consortium type
- 3-5 years
- 30m–100m JPY (300k-1m USD) / y

Type2: Core team type
- 1-3 years
- 10m–30m JPY (100k-300k USD) / y

Type 3: Accelerate int'l cooperation type
- 1-3 years
- 5m–10m JPY (50K-100k USD) / y

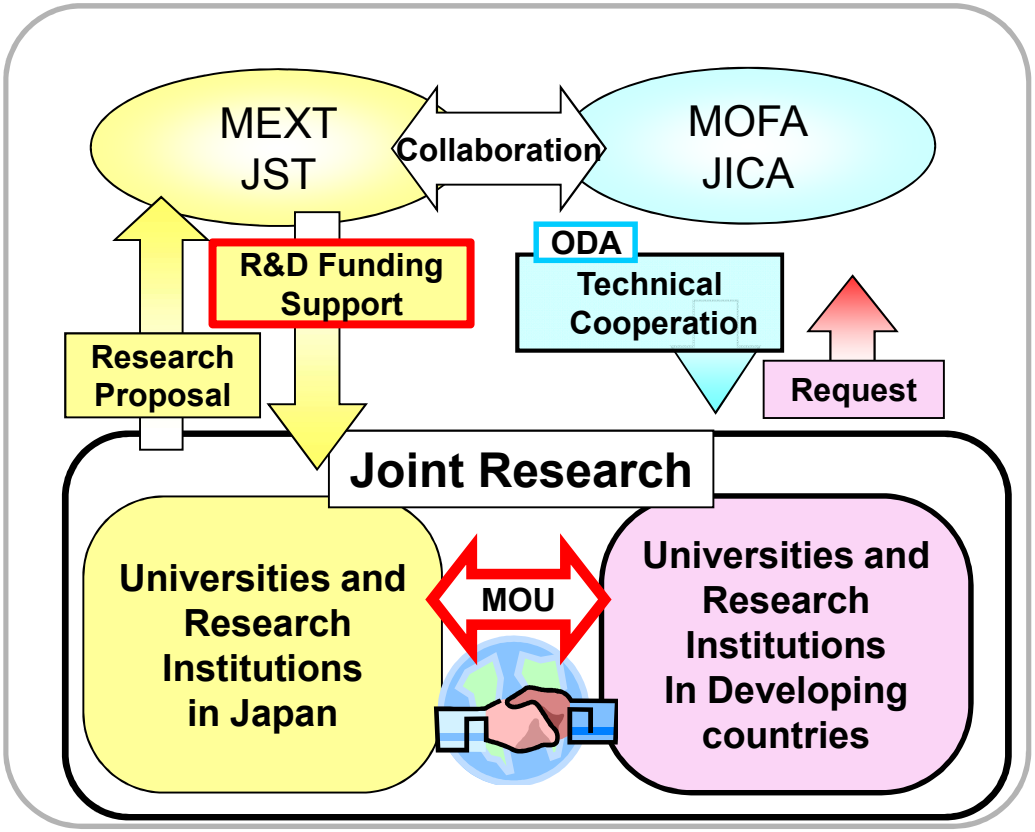
[implemented by JST]

http://www.jst.go.jp/inter/english/

Activities for S&T Diplomacy - 2

S&T cooperation with developing countries to address global issues

Science and Technology Research Partnership for Sustainable Development (SATREPS)



Fields:

- Global-scale Environmental Issues
- Low Carbon Society and Energy
- Bio resources
- Natural Disaster Prevention
- Infectious Disease Control

Term: 3-5 years

[implemented by JST]

http://www.jst.go.jp/global/english/

Science and Technology — satreps — Official Development Assistance

For the Earth, for the Next Generation

Research in JAPAN

Japan has started new initiatives for foreign researchers.
Many opportunities are open to you.
We encourage your “cool” science life in Japan.

Message from the Minister

-The Japan Vision 2020 initiative-

The science community in Japan will become more internationalized and a more attractive place for top-notch persons. Innovate with us for a better future!

Hakubun Shimomura,
Minister of Education, Culture, Sports, Science and Technology,
Minister in charge of Education Rebuilding
Minister in charge of the Tokyo Olympic and Paralympic Games

http://www.mext.go.jp/english/science_technology/1304788.htm

Thank you for your attention.