

After the accident at the Fukushima Daiichi nuclear power plant...

Rampant concern about the long lasting effects on the ecosystem of low doses of radiation caused by radioactive materials emitted from the nuclear power plant

Investigation and Clarification

Institute of Environmental Radiation (IER)  
Established by Fukushima University

### Purpose of Installation

To investigate the long term dynamics and effects of radioactive materials on the environment in temperately rainy climates through the cooperation of research institutes around the globe.

### 【 Cooperative Institutions 】

Hiroshima University, Nagasaki University, Belarusian State University, National Institute of Radiological Sciences (NIRS), Japan Atomic Energy Agency (JAEA)

Cooperation

Plymouth Univ. (U.K)

Belarusian State Univ.

IRSN(RF)  
LSCE(RF)

IAEA

Colorado State University (CSU)

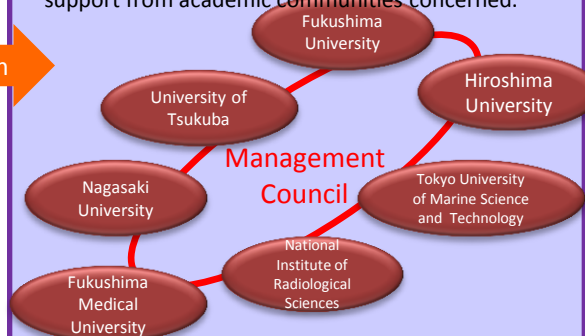
The institute provides shared/joint usage for universities and research institutes in Japan and overseas.

Expected outcomes

New developments and systematization for academic research fields, produced by coordination and cooperation between institutions, and fusion research with different fields.

### Nation-wide Management

Management would be based on the partnership of cooperative institutions which are recognized to have insight into radiation research fields, and strong support from academic communities concerned.



International Union of Radioecology(IUR), The Japanese Society of Fisheries Science, The Geological Society of Japan, Meteorological Society of Japan, Japanese Society of Air Environment, etc...

### Open Organization and Staffs

Director

Management Council

Deputy Director

Advisory Board

Valuable advice from domestic and overseas researchers etc...

Fundamental Science of Radiation

Environmental Science of Radiation

Ecological Science of Radiation

Information Science of Radiation (laboratory for Archives)

Laboratory for analysis

- Tenured Researchers
- Specially Appointed Researcher (non-tenured)
- Researchers (mid/short-term)
- Technical Assistants

### Major Projects

- The long term investigation regarding the dynamics and effects of radioactive materials in the environment.
- Development of the principles and technology for the measurement of radiation and materials in the environment.
- Deciphering of the mechanisms of the transmission of radioactive materials from environment to animals through the food chain.
- Analysis of the transition process of the change of radioactive nuclides through climatic phenomena.
- Functioning as the think tank regarding rehabilitation assistances to the environment.
- Storage of documents and samples, and preservation of research strategies and objects.

# Environment

Fukushima University

Institute of Environmental Radiation

- Continued research on Environmental Radioactivity

- 1) Fundamental Research on Radiation
- 2) Research on Environmental Radiation
- 3) Research on Effects of Radiation on Habitat
- 4) Research on Radiological Information

(Central Actor in Archiving / Information Dissemination )

Fukushima Prefecture

Fukushima Prefecture Environment Creation Center

- Environmental Monitoring
- Environmental Rehabilitation / Research on Revitalization Technologies / Research
- Information Collection / Dissemination
- Education / Seminars/ Exchanges

Fukushima Medical University

Research Center on State-of-the-art Sciences on Radiation Health

- Research and Development of world-leading methodologies for radiation-related diagnosis
- Research on the effects of Radioactive Materials on people via the environment and natural habitats
- Monitoring of low dosages of ambient radiation exposure

# Health and Medicinal Science

Collaboration

Collaboration

Collaboration

Systematization of Academic Research and Environmental Radiation Science

Direct Services for local Residents

Collaboration of Core Research Centers Related to Radioactive Contamination in Fukushima