

# Human Resource Development Program for Advanced Radiation Protection with Practical Problem-Solving Skills

**Program Outline** This project is mainly aimed at students and graduate students of the Department of Radiological Technology in the Faculty of Health Sciences, and aims to produce human resources who are experts in radiation control and who can lead government agencies and the research and education fields of radiation protection. Synergistic effects will be achieved by utilizing the human resources, facilities and strengths of Kyushu University and Tohoku University to coordinate the program.

## **Basic Education Program on Radiation Protection (mutually implemented by Kyushu University and Tohoku University)**

- Lectures on radiation protection and regulation (including lectures by officials of the NRA and experts)
- Dose assessment exercises for radiation facilities, environment, and humans using MC simulation
- Exercises on risk communication and radiation exposure counseling related to radiation and nuclear accidents and disasters
- Handling of unsealed RIs, practical training on radiation measurement

## **Radiation Regulation Human Resource Development Program (Kyushu University)**

- Exercises to review and discuss issues related to radiation regulations in the field
- Problem-based learning
- Medical Accelerator Safety Management Training Assessment and management of accelerator radiide and contamination
- Virtual reality training on safety management and accident response

## **Human Resource Development Program for Nuclear Disaster Response (Tohoku University)**

- On-site training at the Fukushima Daiichi Nuclear Power Plant, etc. Measurement of environmental radiation and estimation of human health effects
- Nuclear emergency response exercises
- Nuclear emergency response radiation protection training

## **Internships at Radiation Control Sites**

Internship at NRA, isotope center, radiation control room, etc.

## **Radiation Protection Research Support Program (Kyushu University and Tohoku University)**

To develop problem-solving skills and to acquire explanatory skills by making presentations and research presentations on radiation protection-related themes.

## **Producing human resources with practical problem-solving skills for nuclear regulations and radiation protection**

- Administrators who are active in regulatory agencies and related government agencies
- Educators and researchers who are active in educational and research institutions

## **Schedule**

First year Preparation of program on radiation protection and application for curriculum revision

Second year Trial in existing on-campus lectures, exercises, etc.

Third year Implementation in new curriculum, execution of mutual programs

4th Year Trial implementation of the program for other universities and working adults

5th Year Development of the above programs