

# Aim and overview of the Integrated Program for Next Generation Volcano Research and Human Resource Development

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## 1. Association for the Development of Earthquake Prediction

Basic observational researches by the Volcanic Eruption Prediction Plan have been promoted in Japan since 1974. The 2014 Ontake eruption in which 63 people lost their lives, however, made us recognize the need to promote not only basic observational research but also the research clearly oriented towards volcanic disaster mitigation. A lack of volcano researchers, in particular young researchers, was also recognized. In order to address these problems, the Integrated Program for Next Generation Volcano Research and Human Resource Development (IPNGVRHRD) was planned by the MEXT, and has been promoted as a 10-year project since 2016.

The IPNGVRHRD consists of the Next Generation Volcano Research (NGVR) and the Consortium for Human Resource Development in Volcanology (CHRDV). The NGVR is aimed at advancing Japan's volcano research and contributing to mitigation and disaster resilience countermeasures for volcanic hazards by promoting integrated volcano research encompassing observation, forecasting and countermeasures with unifying volcano observation data. In the NGVR, 4 programs of "Developing Data Sharing System of Volcano Observation Data", "Development of Cutting-edge Volcano Observation Technology", "Development of Forecasting Technologies for Volcanic Eruptions" and "Development of Volcano Disaster Countermeasure Technology" have been carried out, and the efforts are cooperatively being made for the output of the NGVR: "Response to upcoming/ongoing volcanic hazards: assessing real-time conditions and presenting the eruption scenarios" and "Presenting probabilities of volcanic eruptions".

The CHRDV is aimed at nurturing the next generation of volcano researchers in cooperation with universities and research institutes. Utilizing research and educational resources in and outside Japan, an educational program is possible to systematically study areas related to volcanic disasters in addition to geophysics, geology, petrology, and geochemistry. By this program, fostering volcanologist is expected with broad knowledge including engineering and social science, and high-level technologies. In this presentation, we will briefly introduce the progress and achievements of the project, and would like to describe the matters under consideration for the final outcome.

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