Intensive Training for Geothermal Resource Engineers
地熱資源エンジニア

Continuing
Innovative Program

Target Countries : Countries with geothermal resources

Course No. : J1804301 **No. :** 1884851

Sector : Natural Resources and Energy/Renewable Energy

Sub-Sector :

Language : English

Outline

The program is an intensive six (6) months practice-based geothermal engineer program. It has more than 30 years of history since 1970. After experiencing 15 years of break, the program was revived in 2016 as a response to numerous requests from countries with geothermal resources potential. In order to promote geothermal development in each country, developing human resources is of the utmost importance. Improving the reliability of geothermal exploration and analysis is especially important in order to mitigate development risk and improve success rate. The first three months of the program will be dedicated to classroom based training. During the next three months, trainees are expected to conduct hands-on research on specific issues that they face in their home countries. At the end of the course, they are expected to present their findings.

Objective/Outcome

【Objective】
This program will train engineers to lead national geothermal resources development.

【Outcome】
1. To acquire theoretical and practical method for geothermal development through lectures and project study.
2. To understand current situations of geothermal development in participants' countries and in Japan.

Target Organization / Group

【Target Organization】
Governmental organization in charge of geothermal development

【Target Group】
1. Over 3 years' experience in this field.
2. University graduates or equivalent level, preferably with a background of engineering or science.
3. Under 40 years old
4. Fluent in English, both in writing and speaking.
5. Must be in good health, both physically and mentally, to participate in the program for prolonged stay.

Contents

【Preliminary phase in home country】

1. Prepare a country report about geothermal development
2. Consider prospective research theme

【Core phase in Japan】

1. Lecture on theory and analytical methods of geology, geochemistry, geophysics, reservoir engineering, etc.
2. Lecture on economic and financial analysis, social acceptance of geothermal power plants, outsourcing of exploration, etc.
3. Site visits to turbine manufacturers and geothermal sites in Japan
4. Country report presentation
5. Project study on individual themes of home countries
6. Poster presentation of the results of project study
7. Action plan making and presentation

【Final Phase in home country】

Implementation of the action plan (JICA will provide technical advice)

Course Period	2018/6/11～2018/12/15
Department in Charge	Industrial Development and Public Policy Department
JICA Center	JICA Kyushu
Cooperation Period	2016～2018

Implementing Partner	Kyushu University
Remarks and Website	High achievers will be assisted master degree program and doctor degree program.