

Young Scientist Research Project - Topic 3

Title

Field diagnosis of soil chemical properties for soil management and fertilizer recommendations

① Background Information

- **Personnel:** 1 person, A researcher from one of KAFACI member countries
- **Period of Training:** June 2020 ~ November 2020 (6 months)
- **Implementing Department:** Soil and Fertilizer Division, Department of Agricultural Environment in National Institute of Agricultural Sciences
- **Research Studies Currently Being Implemented:**
 - Support for establishment of agricultural policy by soil testing in major land of eup, myeon, dong
 - *eup, myeon, dong: subunit of district in Korea
 - Establishment of decision making procedures for soil environmental management by linking soil testing and field diagnosis

② Course Description

- **(Training Purpose)** Acquisition of techniques of soil management and fertilizer prescription, and capacity building through implementation of field diagnosis of soil chemical properties
 - * Quantitative goal: field diagnosis and prescription DB establishment, academic presentation (international), paper submission (SCI)
- **(Professional capacity building)** Basic technology learning for field diagnosis and fertilizer description
 - * Qualitative goal: Acquisition of farm household problem-solving technology through field diagnosis and fertilizer prescription
- **(Promotion of research and learning activities)** Participation in extension services and cooperation with extension providers on issues regarding soil problems
 - * Qualitative goal: cooperation with extension service providers through participation in extension specialist association of soil environment
- **(Capacity building for future response)** Establishment of soil testing big data and capacity building in its utilization
 - * Qualitative goal: Establishment of soil testing big data and comprehension of its utilization using KSIS (Korea Soil Information System) Portal

③ Qualifications of the Trainee

- **(General Requirements)**
 - A government official working in one of KAFACI member countries, and recommended by the head of his/her organization
 - Proficiency in English, writing papers, computer applications and operations
- **(Specific Requirements)**
 - A researcher who has master's expertise (or Doctor's) in soil chemistry and has more than 5 years of research experience in this field