

A Proposal for the Young Scientist Project

Title	Exploration of Functional Properties and Development of Food Materials from Domestic Apicultural Products
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1. Course Outline

○ **Personnel:** KAFACI member countries

○ **Period of Training:** March 2025 – November 2025 (8 months)

○ **Implementing Department:** Apiculture Division, National Institute of Agricultural Sciences

○ Research Studies Currently Being Implemented

- Development of technologies to address issues related to false acacia honey
- Development of functional materials derived from drone pupae and quality control technologies

2. Plan Course Direction

○ **(Training Objectives)** Research on the functional properties and food material development of domestic apicultural products

* **Quantitative Goals:** Functional exploration (2 topics), food material development (1 project), research paper submission (1 paper)

○ **(Systematic Expertise Development)** Enhance capabilities in functional exploration and food material development

○ **(Enhancement of Self-Directed Learning)** Improve individual capabilities through the implementation of research tasks

○ **(Research and Academic Activities Enhancement)** Enhance research capabilities through manuscript preparation and participation in academic conferences

○ **(On-Site Problem-Solving Capability Development)** Acquire processes and techniques to address domestic field challenges, and develop the ability to apply them in local settings

○ **(Fostering Creative Job Experts)** Establish a network of apiculture experts in the African region and collaborate on international issues

○ **(Future-Oriented Capability Development)** Discover functional properties of domestic apicultural products and utilize them as food materials in home countries

3. Qualifications of Participants in Young Scientist Project

○ (General Requirements) Requirements for all Young Scientists

- Must be a government official from a KAFACI member country, recommended by the head of their affiliated organization.
- Must hold a master's degree or higher in a relevant field with at least five years of related experience.
- Proficiency in English and strong computer skills are required.

○ **(Details) Additional Requirements**

- Applicants with advanced knowledge and research experience in the field* holding a Master's degree or higher

* Relevant Fields: Agricultural Biology, Entomology, Molecular Biology

- Researchers with an interest in apiculture and beekeeping products

- Proficient in MS Office and statistical software such as R, SAS, and SPSS