



STATE OF ISRAEL



Israel's Agency for International  
Development Cooperation  
Ministry of Foreign Affairs



Centre for International Agricultural  
Development Cooperation, Ministry of  
Agriculture and Rural Development



ARO – Agriculture Research  
Organization, the Volcani Center,  
Ministry of Agriculture and Rural  
Development



Institute of Agricultural Engineering

**MASHAV - Israel's Agency for International  
Development Cooperation**

**with**

CINADCO - Centre for International Agricultural  
Development Cooperation and the ARO – the Volcani  
Center, Ministry of Agriculture & Rural Development

invite professionals  
to participate in the

**International Course:**

# **Agricultural Engineering Technologies**

In cooperation with the Agricultural Engineering Institute

**October 14<sup>th</sup> – November 2<sup>nd</sup>, 2018**



## About the Course

### Background

The general objective of the IAE (Institute of Agricultural Engineering) is to develop and introduce new concepts, methods, technologies and systems to advance the national and international research in agricultural engineering, to advance the Israeli agriculture and to assist the farmers. The activities of the Institute are mostly application-oriented. Research & Development projects cover a wide range of subjects, such as: Systems and methods of growing plants and animals, Greenhouse technologies and environmental control, Quality management and production engineering, Precision Agriculture, Intelligent automation and robotics, Soil disinfestation and chemical application systems, Decision support systems for irrigation and pest managements, Harvesting systems of vegetables and fruits, Post-harvest systems – sorting, sensors, packing, etc. The Institute has successfully completed numerous R&D projects, whose applications can be seen in action both throughout Israel and overseas.

The Institute collaborates with farmers, commodity groups, regional processing plants, the Ministry of Agriculture's Extension Service, and industry, as well as with national and international research organizations and universities.

The subject and content of the course are consistent with the U.N. Sustainable Development Goals – End Hunger, advancing sustainable agriculture, technology development & Responsible consumption and production (SDG No. Two, Nine & 12).

### Aims

The participants will be exposed to applicable and novel technologies and methodologies in the area of agricultural engineering.

Upon their return to their respective countries, it is expected that the participants should be able to: Initiate and conduct research needed for optimum adaptation to Agricultural Engineering Technologies; Transfer the knowledge to extension workers, to farmers and to agricultural industries that operates R&D units; Contribute to the scientific knowledge on these subjects in their home countries; Maintain the scientific relations formed during the course and implement agricultural projects and joint research with scientists from Israel.

### Main Subjects

- Industrialization, optimization and automation in agriculture.
- Quality control and production management.
- Precision Farming, remote sensing, GIS and GPS technologies.
- Precision livestock management.
- R&D of environment and climate control in greenhouse and husbandry.
- Intelligent automation and robotics.
- Specialized computerized decision support systems.
- Sophisticated harvest and post-harvest systems and dedicated sensors.
- R&D in Bio-fuels and biomass technologies.
- Topics in agriculture and environment interactions.
- Application of soil and water technologies.
- Nano-technology - Bioelectronic and bioelectrochemical sensors

## **Application**

### **Application Requirements**

The Course is designed for professionals from national organizations, academic, extension or government institutions. Participants must have a relevant academic degree and at least 3 years of practical work experience relevant to the course.

First priority will be given to groups of professionals from academic and extension institutes involved in Agricultural Engineering Practices with and/or under the aegis of national and/or international organizations, institutions, universities, NGOs, etc.

Good command of written and spoken English language is essential.

### **Application forms**

Application forms and other information may be obtained at the nearest Israeli mission or at MASHAV's website: [click here](#).

Completed application forms, including the medical form, should be sent to the relevant Israeli mission in the respective country by or before August 5<sup>th</sup>, 2018.

### **General Information**

#### **Arrival and Departure**

Arrival date:	October 14 <sup>th</sup>
Opening date:	October 15 <sup>th</sup>
Closing date:	November 1 <sup>st</sup>
Departure date:	November 2 <sup>nd</sup>

Participants must arrive at the training center on the arrival date, and leave on the departure date. Early arrivals/late departures if required, must be arranged by the participants themselves, directly with the hotel/center, and must be paid for by the participant him/herself.

#### **Location and Accommodation**

**MASHAV** awards a limited number of scholarships. The scholarship covers the cost of the training program including lectures and field visits, full board accommodation in double rooms (two participants per room), health insurance (see below) and transfers to and from the airport. Airfares and daily allowance are not included in the scholarship.

#### **Health Services**

Medical insurance covers medical services and hospitalization in case of emergency. It does not cover the treatment of chronic or serious diseases, specific medications taken by the participant on a regular basis, dental care and eyeglasses. Health authorities recommend that visitors to Israel make sure they have been inoculated against tetanus in the last ten years. Subject to the full binding policy conditions. Participants are responsible for all other expenses.

The course will be held at the Volcani Center, situated 10 km east of Tel Aviv, Israel.

Participants will be accommodated at Neve Shalom Hotel, in Latrun, in double rooms (two participants per room).

### **About MASHAV**

MASHAV – Israel’s Agency for International Development Cooperation is dedicated to providing developing countries with the best of Israel’s experience in development and planning. As a member of the family of nations, The State of Israel is committed to fulfilling its responsibility to contribute to the fight against poverty and to the global efforts to achieve sustainable development. MASHAV, representing Israel and its people, focuses its efforts on capacity building, sharing relevant expertise accumulated during Israel’s own development experience to empower governments, communities and individuals to improve their own lives.

MASHAV’s approach is to ensure social, economic and environmental sustainable development, and is taking active part in the international community’s process of shaping the Post-2015 Agenda, to define the new set of the global Sustainable Development Goals (SDGs).

MASHAV’s activities focus primarily on areas in which Israel has a competitive advantage, including agriculture and rural development; water resources management; entrepreneurship and innovation; community development; medicine and public health, empowerment of women and education. Professional programs are based on a “train the trainers” approach to institutional and human capacity building, and are conducted both in Israel and abroad. Project development is supported by the seconding of short and long-term experts, as well as on-site interventions. Since its establishment, MASHAV has promoted the centrality of human resource enrichment and institutional capacity building in the development process – an approach which has attained global consensus.

<http://mashav.mfa.gov.il>

<https://www.facebook.com/MASHAVisrael>

### **About CINADCO**

The Center for International Agricultural Development Cooperation (CINADCO) is a part of the Israel Ministry of Agriculture and Rural Development. Since 1958, CINADCO has been in charge of the International Agricultural program conducted by MASHAV in Israel and abroad. CINADCO’s activities consist of: International and country “tailor-made” courses in Israel, on-the-spot courses, long- and short-term projects and advisory missions. Israeli experts have also been sent to different locations around the world to conduct projects and to share their expertise in various aspects of agricultural production, extension and project planning.

[CINADCO Facebook](#)

**For further information, please contact:**

**CINADCO:**

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**Website: [CINADCO](#)**

## **About ARO**

The Agricultural Research Organization (ARO), the Volcani Center, is the research arm of the Ministry of Agriculture and Rural Development and is responsible for most of the agricultural research conducted in Israel. The scientists of the ARO collaborate with the regional R&D Stations and with the Agricultural Extension Service of the Ministry of Agriculture. Research at the ARO aims to improve existing agricultural production systems and introduce new products, processes and equipment on which Israel's future agricultural efforts will be based. ARO website: [Click here](#)