

## Instructional Staff

Program instructors and resource faculty are drawn from representative sectors of the agricultural biotechnology community. They include research scientists from various MSU departments, other universities, private companies, regulatory officials from state and federal agencies, specialists in information resources, and other individuals experienced in biotechnology implementation from an international perspective.

Our training team has strong expertise and practical experience in all aspects of agricultural biotechnology. Members of our training team have participated and conducted a number of training programs in both local and international settings.

### Organized by

Michigan State University

College of Agriculture and Natural Resources (CANR)



WorldTAP

World Technology Access Program

<https://www.canr.msu.edu/worldtap/>



**Application Deadline:**

**March 31, 2026**

### Program fee includes:

Instruction fee, training materials, lodging, meals per diem, emergency health insurance, field trips, international air ticket, USA visa fee, local air tickets within the US, and ground transportation within the US.

*For registration and other information, please contact*

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**MICHIGAN STATE**  
**UNIVERSITY**



**An International  
Short Course in  
Agricultural Biotechnology,  
Biosafety, and  
Technology Transfer**

**August 1 - 15, 2026**

## Agricultural Biotechnology, Biosafety, and Technology Transfer Program Rationale >>>

An exciting wave of discoveries in biotechnology is revolutionizing agriculture worldwide. Globally, countries are trying to increase the productivity and profitability of the agricultural sector of their economies to feed the growing populations and increase the quality of life for millions of people. These goals must be achieved through practices that sustain those gains while protecting the environment and human health, and conserving biodiversity and other natural resources.

The use, deployment, and importation of biotechnology products has raised a number of regulatory issues related to risk/benefit analysis associated with environment and human health. This requires an integrated approach towards the use and management of biotechnology so that science and regulations can co-evolve and society can benefit from modern biotechnology. The integrated approach to biotechnology management should include research, policy, regulations, technology transfer, commercialization, and communication aspects.

Education and awareness on various aspects of agricultural biotechnology including environmental safety and food safety issues will help assist government agencies' various stakeholders make informed decisions on genetically engineered and gene edited crops and products. This program is designed to help participants better understand various issues surrounding the use and management of agricultural biotechnology globally.

### Program Components

- ♦ Applications of biotechnology in agriculture and global overview of agricultural biotechnology
- ♦ Biotechnology policies and regulatory framework in a national and global context: environmental biosafety, biodiversity, and food safety
- ♦ Environmental safety, food safety, and product stewardship issues associated with genetically engineered (GE) and gene edited crops
- ♦ Confined field trials of GE crops
- ♦ Commercialization and stewardship of GE crops
- ♦ Gene editing innovation, applications, and regulation
- ♦ Intellectual Property Rights (IPR), technology transfer, and commercialization of biotechnology
- ♦ Public-private sector partnerships
- ♦ Socio-economic impacts of biotechnology
- ♦ Biotechnology and international trade
- ♦ Adoption/acceptance of new technology
- ♦ Consumer acceptance, public perception, and communication in biotechnology
- ♦ On-farm demonstrations of genetically engineered and genome edited crops
- ♦ Field visits to farmers growing biotechnology crops
- ♦ Information and training resources in agricultural biotechnology

### >>> Program Description

Michigan State University (MSU) is recognized as a center of excellence in international agricultural development and training. MSU has emerged as a leader among U.S. Land Grant institutions in building capacity in biotechnology research, management, and outreach around the globe to enhance food and nutritional security, environmental quality, and economic development. MSU partners with public and private institutions globally to offer a two-week program in agricultural biotechnology. This training program focuses on biotechnology research, regulations, technology transfer, commercialization, product stewardship, communication, and public outreach components, as well as biotechnology-related trade issues.

The Program is offered annually and draws from firmly established working relationships with government

agencies, industry leaders, MSU faculty specialists, MSU research stations, other US universities, farmer groups, commodity and consumer groups, international development organizations and NGOs that are supportive of biotechnology research and development globally. This uniquely diverse training program takes an interactive and participatory approach and uses a broad mix of training approaches such as applied lecturers, case studies, panel/group discussions, and laboratory, greenhouse, and field visits. In addition, the program fosters linkages and provides opportunities for networking among participants to exchange their experiences and establish regional and global collaborations.

