



College of Food, Agricultural, and Environmental Sciences

Research Capabilities

About CFAES

The College of Food, Agricultural, and Environmental Sciences is committed to providing programs designed to respond to the complexity of needs of Ohio's population and the demands on Ohio's resources. New issues arise regularly as citizens become even more environmentally and socially aware, as the scale of agriculture production increases, and as technological advances change the fundamental nature of production.

Five specific areas of interest exist for the College. These areas represent a balance between the basic economic, social, and environmental needs of Ohio citizens and the existing and potential expertise of our college faculty. They demand not only strength within our academic disciplines, but, more importantly, the ability to work across disciplines.

Areas of Interest

Managing and Using Production Resources

Food and fiber generation depend on the efficient use of soil, solar energy, water, and air.

Developing Food and Other Agricultural Products

College programs teach Ohio's citizens how technology is used to increase the market value of raw materials, such as food or fiber products.

Enhancing Environmental Quality

The college seeks to improve management and the conservation of regional and global air, water, and land systems that affect human welfare, through education, research, and service activities.

Assessing Social and Economic Change

College programs consider the effects of present and future agricultural and natural resources research, education, and public policy on Ohio citizens and their communities.

Developing Human Resources

The College is a public resource whose ultimate goal is to improve the quality of life – including socioeconomic status, self-esteem, health, and leadership abilities – for Ohio citizens.



The Ohio Agricultural Research and Development Center

The mission of The Ohio Agricultural Research and Development Center is to enhance the well-being of the people of Ohio, the nation and world through research on foods, agriculture, family and the environment.

The Ohio Agricultural Research and Development Center is the research arm of CFAES. With over 800 employees, OARDC is the largest and most comprehensive agricultural research facility in the United States. At any given time OARDC scientists are engaged in more than 400 research projects. OARDC annually collaborates with more than 130 corporations world-wide for research purposes and is credited with over \$1 billion of annual economic impact and cost savings to Ohio and the United States.

cfaes.osu.edu



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COLLEGE OF
FOOD, AGRICULTURAL, AND
ENVIRONMENTAL SCIENCES



OSU Extension

Ohio State University Extension brings the knowledge of the university to your door. Extension fulfills the land-grant mission of The Ohio State University by interpreting knowledge and research developed by the Ohio Agricultural Research and Development Center, Ohio State and other land-grant universities, so that Ohioans can use the scientifically based information to better their lives, businesses and communities.

Extension specializes in the knowledge delivery of OSU research and discoveries throughout all of Ohio's 88 counties. Ohio State University Extension is also home to one of the largest information databases, known as Ohio Line (www.ohioline.osu.edu) which enables the rapid dissemination of information throughout a large geographical area.

Center for Innovation Based Enterprise

Inventors and firms seeking to commercialize AgBioscience innovations face substantial obstacles. This center was established to provide the necessary expertise to address the barriers to product commercialization by providing cutting edge research into entrepreneurship, contract design, finance, marketing, and risk management for innovation-based and start-up AgBioscience enterprises.

Center for Food Safety and Agrosecurity

Food safety and security are high national priorities with major local impact. Ohio ranks fifth in the nation for food processing and manufacturing, both of which are major industries that directly impact the lives of everyone. The Center for Food Safety and Agrosecurity proposes to bring innovative advances in food safety to commercial applications. The current focus of this group is on the U.S. Egg Safety Action Plan which calls for complete eradication of Salmonella from eggs by the year 2010.

Center for Advanced Functional Food Research and Entrepreneurship

In spite of improved medical care and the virtual elimination of nutritional deficiency disorders, aging Americans are suffering epidemics of chronic diseases. Functional foods are defined as products providing health benefits beyond their contribution to nutrient requirements and can significantly contribute to mitigating disease. Linking nutrition, health and disease prevention has produced enormous commercial opportunities targeted towards health promotion and enhancement as well as the prevention and treatment of specific diseases.

Center for Urban Environment and Economic Development

This center focuses on the development and commercialization of a series of new organic and biological products to meet the fertility, pest control, and pollution mitigation needs of urbanized landscapes.