The past five years have seen significant growth in public awareness of the economic benefits of the agbiosciences underscored by $98 billion in economic output and accounting for one million jobs—Ohio’s largest industry. Agbiosciences innovations are driving new, economic opportunities for the U.S., and the state of Ohio is an early mover in recognizing opportunities associated with biobased resources. To take advantage of these opportunities OARDC has been proactive in developing new programs, sources of funding, infrastructure, and public-private partnerships leading to expanding Ohio’s:

- **Food Security, Production and Human Health**
  - Soy-tomato and berry products capable of slowing down cancer.
  - Elimination of *Salmonella* and *E. coli* contamination of food products.
  - Reduced cattle feeding costs by up to 50% using a by-product of ethanol production.

- **Advanced Bioenergy and Biobased Products**
  - Waste to energy and a new biobased energy industry for Ohio.
  - A domestic source of natural rubber from the Russian dandelion.
  - Increased efficiency in ethanol production.

- **Environmental Quality and Sustainability**
  - Reduce over a half million tons of carbon dioxide by managing microbes.
  - Nutrient trading markets decrease pollution and contribute to economic development.

“OARDC is clearly the signature institution in Ohio for driving agbiosciences-based development forward in the state.”
—Battelle Memorial Institute, 2008

**Commercialization and Industry Partners**

- OARDC and the **quasar energy group** developed a pilot scale anaerobic digestor and initiate a new industry for Ohio.

- R&D with **The Andersons** to commercialize a new granular technology for delivering pesticides to turf applications.

- A “green fungicide” can save farmers, millers, and bakers $1 billion per year.

- R&D with the **Natural Fiber Composites Corporation** to integrate natural fibers with thermoplastics for the automobile industry.

More OARDC impacts can be found at [http://www.oardc.osu.edu](http://www.oardc.osu.edu)
OARDC is the nation’s largest and Ohio’s only comprehensive agbioscience research organization supporting Ohio’s $90+ billion agriculture industry. Based on a recent Battelle study OARDC research returns $7 for every state dollar invested. It is engaged with well over 100 companies and maintains an over $100 million portfolio of external grants and contracts.

**DRIVING OHIO’S ECONOMY THROUGH RESEARCH**

### OARDC

**Research and Development**

**Jobs**

**Economic Development and Jobs for Ohio**

**Commercialization**

**ANNUALLY OARDC DIRECTLY GENERATES:**

- **$156.3 million in total Ohio economic output**
- **1,600 Ohio jobs**
- **$59.2 million in personal income for Ohio residents**
- **$5.5 million in annual tax revenues**

— Battelle Memorial Institute, 2008

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### We Will Bring Discovery to Market

- **BioHio Research Park** – Located on the Wooster campus, BioHio will catalyze local and regional economic development, and be a major attractor for agbioscience companies.
- **ATECH** – Co-sponsored with Ohio State University Extension, ATECH links agbioscience research with private industry to develop new products and commercialize discoveries.
- **SEEDS Competitive Grants Program** – SEEDS increases the competitiveness, creates private industry partnerships, and supports new enterprises. SEEDS grants have returned $5 for every $1 invested.

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### We Will Make Returns on Your Investment

- **Our focus on Food, Energy, and the Environment will leverage Ohio’s investment in OARDC.**
- **Cultivating top faculty, staff and students are our most important investments in higher education’s agbioscience sector and drives discovery, innovation, and trains a highly skilled workforce.**
- **OARDC does not receive financial support from OSU tuition and fees.**

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### We Will Use State Funding to …

- **Attract and retain top talent to prevent loss of the best and brightest talent and keep cutting-edge jobs in Ohio.**
- **Insure that Ohio has a safe, secure, nutritious, and economical food supply.**
- **Advance our national leadership position in bioproduct, bioenergy, and value-added product development.**
- **Move discovery to market through directed commercialization efforts.**

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**BRINGING KNOWLEDGE TO LIFE**

http://www.oardc.osu.edu