North Carolina Agricultural Research Service
College of Agriculture and Life Sciences
North Carolina State University

The mission of the NCARS is to develop the knowledge and technology needed to:

- Improve productivity, profitability and sustainability of industries in agriculture and the life sciences;
- Conserve and improve the state's natural resources and environment;
- Improve the health, well-being and quality of life of North Carolina's citizens;
- Provide the science base for academic and extension programs.

Scope

- Federal: 1887 legislation links N.C State to the land-grant system and USDA-NIFA (National Institute of Food and Agriculture); NCARS also collaborates with USDA's Agricultural Research Service
- State: the principal agency that leads research in agriculture and the life sciences, in partnership with N.C. A&T State University, the N.C. Department of Agriculture and Consumer Services and other UNC system institutions
- College: coordinates research in 18 departments, various centers, and works in partnership with college extension and teaching programs

Facilities

- Research laboratories, greenhouses, Phytotron, Biological Resources Center, Pesticide Residue Laboratories, Genomic Sciences Laboratory, Animal and Poultry Waste Management Center, Feed Mill, Aquaculture Facility, Land Application and Structural Pest Training Center, Plant Transformation Laboratory, Cell and Molecular Imaging Facility, NCSU Bio NMR Facility, Micropropagation Unit and Repository, JC Raulston Arboretum, Turfgrass Field Laboratory, IR-4 Field Research Center

Facilities off-campus

- Regional research and extension centers at Mills River (formerly Fletcher), Plymouth and Castle Hayne
- 18 research stations across North Carolina — six owned by N.C. State and 12 by the N.C. Department of Agriculture and Consumer Services
- Center for Environmental Farming Systems at Goldsboro in cooperation with the N.C. Department of Agriculture and Consumer Services and N.C. A&T State University
- 10 field laboratories — six near campus and others at Butner, Aurora, Hillsborough and Wallace
- Plants for Human Health Institute (N.C. Research Campus, Kannapolis)

Personnel

- 1,535 scientists, graduate students, researchers, technicians, clerical workers and bookkeepers

Priorities

- Innovation in crop and animal production systems
- Applied genomics in plant, animal and microbial systems
- Structural biology, metabolomics and systems biology
- Quantitative, computational biology and bioinformatics
- Plant breeding
- Aquaculture, fisheries and livestock biology
- Integrated crop protection systems
- Bioprocessing and value enhancement of crops for food, fiber and bioenergy
- Ornamentals, turfgrasses, small fruits and vegetables
- Food security and safety
- Animal nutrition and health
- Animal welfare and behavioral biology
- Ecosystem sciences and climate change
- Pest management

Invest in innovation

- If you would like to make an unrestricted gift to support research in agriculture and life sciences, you may give online to the N.C. Agricultural and Life Sciences Research Foundation at http://www.cals.ncsu.edu/NCALSresearchfoundation
- If you would like to learn about ways to support a specific area of research, or if you would like to explore opportunities for research collaboration, you may email the N.C. Agricultural Research Service Development and Corporate Relations Office at ncals_resfdn@ncsu.edu

For more information

On the Web: http://harvest.cals.ncsu.edu/research.cfm
e-mail: cals_research@ncsu.edu
or call 919.515.2717

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