

**Climate change. Food security.
Community vitality. Biodiversity.
The ideas that keep us up at night are
why we get out of bed in the morning.**

The College of Agriculture and Life Sciences is a pioneer of purpose-driven science and Cornell University’s second largest college. We work across disciplines to tackle the challenges of our time through world-renowned research, education and outreach. The questions we probe and the answers we seek focus on three overlapping concerns: natural and human systems; food, energy and environmental resources; and social, physical and economic well-being.

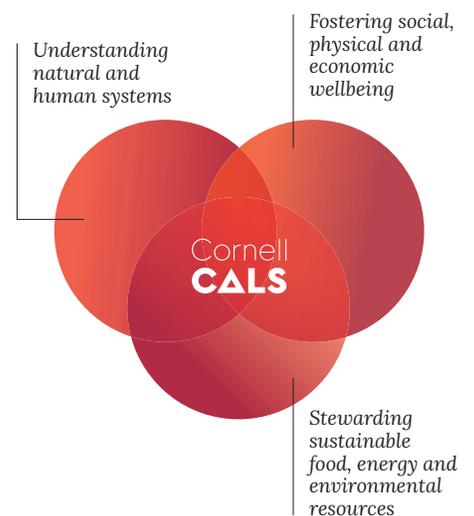
Since our founding, we have evolved continuously to meet the changing needs of our world. Our top-ranked programs include over 20 majors in community and rural development, environment and natural resources, food and nutrition, communication, applied economics, agriculture, international programs and life sciences.

The excellence of our science is matched by the generosity of our spirit. We aim to leave the world better than we found it, so we seek out those not simply driven to master their discipline, but who are also passionate about doing so to serve the public good. CALS is fundamentally invested in improving the lives of people, their environments and their communities both in New York state and around the world.

The Cornell CALS experience empowers us to explore the boundaries of knowledge, supported by the leading minds of today and surrounded by the leading minds of tomorrow.



We accelerate purpose-driven science by supporting inquiry that crosses disciplinary boundaries and stretches from discovery to invention. The world is complex and intertwined. Bringing global challenges into focus takes more than one lens. That’s why we focus on three overlapping areas of inquiry:



Cornell CALS by the Numbers: Spring 2018

OVERVIEW		PEOPLE			PROGRAMS	
5 Affiliated Nobel Prize Laureates	\$194M Total research expenditures (FY17)	3,690 Undergraduate students	350 Faculty	170 Post-doctoral academics	23 and 32 Majors Minors	Across the life, agricultural, environmental, and social sciences.
15 Academic departments	2 Schools	980 Graduate students	930 Staff	440 Non-professorial academics		

Change In Action: Our Global Impact

A critical piece of our commitment to purpose-driven science is putting our knowledge and research to work to make a positive impact. Students and faculty go beyond the boundaries of campus, partnering with communities to explore ideas and solve difficult, complex problems. Cornell CALS is home to several world-class outreach and extension programs that directly serve the public, sharing knowledge and research throughout our state, nation and in almost every country in the world. Below are a few examples of our current projects.

Enabling dairy farmers to reach their business goals

Helping grape nurseries reduce the spread of viruses

Fostering sustainable community development in post-industrial cities

Providing growers with new apple varieties to meet consumer demand

Understanding threats posed by invasive species in the Great Lakes

Bolstering research and prevention of Lyme Disease

Cultivating genetically improved maple stock to increase syrup production

▲ Saving the Adirondack Fisheries

In the 1950s, professor of fishery biology Dwight A. Webster studied the causes of fish kills in the New York Adirondacks, identifying acid rain as the culprit. This work led to the passage of the Clean Air Act, requiring power plants to reduce sulfur dioxide emissions. Born from this, the Adirondack Fishery Program is now researching climate change and solutions to its impact on native fisheries.

NY Field Stations, Research Farms and Forests

10,314

acres outside
Tompkins County

2,075

acres within
Tompkins County

5,022

acres on Ithaca's
main campus

Studying birds to understand the biology of stress resistance

Understanding gender roles in the social media industry

Forecasting megadrought in the American Southwest

Seeking a collaborative solution to dead zones in water habitats

Creating effective and sustainable solutions for the coffee industry

Strengthening partnerships for agricultural and rural development

Designing public landscapes to protect from flooding

Creating the world's most detailed wind maps

Protecting water quality in the Chesapeake Bay watershed

Studying methods to grow and protect flower bulbs

Educating the next generation of African cassava breeders

Advancing computational tools for more efficient plant breeding

Integrating indigenous ecological knowledge with scientific data

Understanding how landscape changes influence rural communities

Partnering with private industry to improve pork product safety

Mapping the rice genome to streamline breeding and improve nutrition

Protecting coral reefs from the impacts of warming oceans

Understanding role of Big Data on rural development

MAJORS

Agricultural Sciences
Animal Science
Applied Economics and Management
Atmospheric Science
Biological Engineering
Biological Sciences
Biology and Society
Biometry and Statistics

Communication
Development Sociology
Entomology
Environmental Engineering
Environmental & Sustainability Sciences
Food Science
Global and Public Health Sciences
Interdisciplinary Studies (Current Students Only)

Information Science
International Agriculture & Rural Development
Landscape Architecture
Nutritional Sciences
Plant Sciences
Science of Earth Systems
Viticulture and Enology