Innovation fuels Purdue’s approaches to the growing demand for food, fuel and fiber. Tens of millions of dollars have strengthened basic and applied plant research programs and the ability to deploy discoveries for global impact.

**BASIC PLANT BIOLOGY**
Breaking new ground in research and educating the next generation

**PLANT PHENOMICS**
Automating advanced sensing in the field and greenhouse to link genes to plant traits

**DIGITAL AGRICULTURE**
Mining data and extracting insights to enhance agricultural productivity

**ENTREPRENEURSHIP**
Pushing innovative research to market and use
DEVELOPING ROBUST SOLUTIONS TO GLOBAL ISSUES
Since 2014
$154M in gifts & external grants
121 plant researchers collaborating with scientists and engineers across 5 colleges

ACADEMICS
491 students enrolled in plant sciences
118 students experienced molecular agriculture through summer program
15 student interns paid to advance their soy-based products

BASIC PLANT BIOLOGY
Established the Center for Plant Biology
36 researchers
7 departments

PHENOTYPING
Indiana Corn and Soybean Innovation Center (ICSC)
50 research programs
7000 visitors from 40 countries
250 unmanned aerial vehicle (UAV) flights per year
Collect continuous plant performance data using field gantry
Integrate solar energy production with field crops
Autonomous robots measure field crop traits

Controlled Environment Phenotyping Facility (CEPF)
36 experiments in 17 months
10 plant species
2000 visitors
4 instruments nondestructively extract plant traits from root to shoot

DIGITAL AGRICULTURE
Internet of Things (IoT) test bed across 1,400-acre research farm
25 Purdue Extension educators discovering new drone uses

ENTREPRENEURSHIP
Wabash Heartland Innovation Network partnering with Purdue to make 10-county region the epicenter for digital agriculture
23 startups
$665K invested in startups through Ag-Celerator

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