

Sowing the Seeds Cutting-Edge Plant Biology Research

East Campus Plant Growth Facility



Empowering Research

More Space

- 22,880 sq. ft of state-of-the-art greenhouse space
- 29 controlled environment growth chambers of varying size
- Extended height in greenhouses (21 ft) and growth chambers (12 ft) allows taller crops used for food and bioenergy (e.g. corn and switchgrass) to reach maturity without running into overhead lighting

More Control

- Precise control of light, temperature, humidity and carbon dioxide
- Ability to simulate natural field conditions
- Reverse osmosis filtered water for precise nutrient adjustments

Specialized Resources

- Live soil capability permits study of plant-microbe interactions and nitrogen use efficiency, which are important subjects in plant health and agricultural sustainability
- Seed sorting, storage, and drying facilities
- Dedicated technical staff
- Root washing facilities with soil traps







Strengthening MU's Position as a Leader in Plant Biology Research



The University of Missouri has a strong tradition of excellence in interdisciplinary plant research. The development of this new facility, led by the Interdisciplinary Plant Group (IPG; www.ipg.missouri.edu) on behalf of the MU plant biology community, will allow this tradition to continue into the 21st century. The facility, which opened in the fall of 2019, will provide faculty, students, postdoctoral fellows, and staff with the technology needed to continue to make breakthrough discoveries and allow MU to continue to recruit outstanding students and faculty. The facility will be utilized by units across campus including the College of Agriculture, Food and Natural Resources, College of Arts and Science, College of Engineering, the School of Medicine, and USDA-ARS.

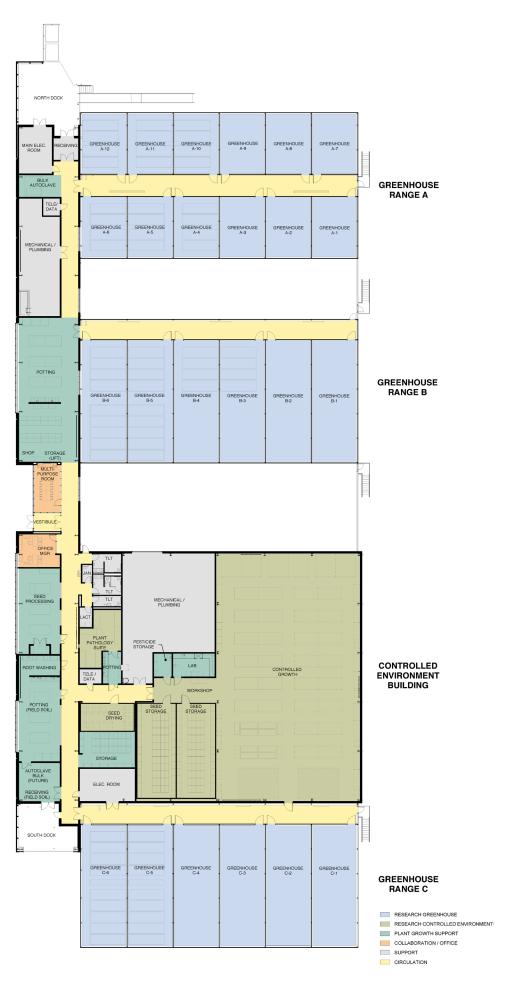
More Data, Less Travel

Without a facility like this, plant biologists need to travel to perform research in various field conditions and to develop winter nurseries for genetic advancement. The environmental controls (temperature, humidity, etc.) and adjustable lighting in this facility will allow MU researchers to mimic field conditions across the globe.

Contact Us

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Greenhouse Module



Seed Storage



Controlled Environment Chambers



Root Washing Facility