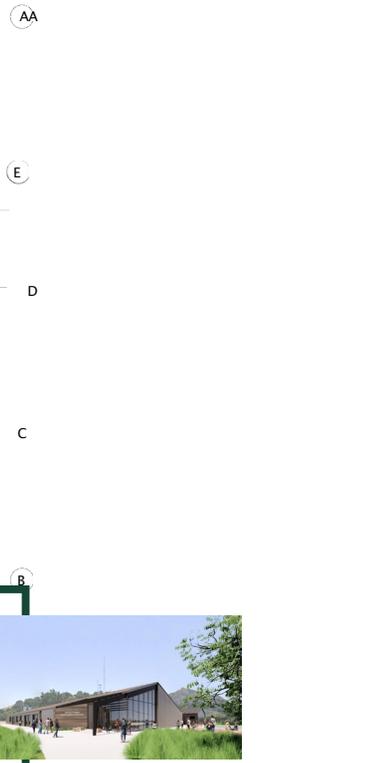




**CAL POLY**  
College of Agriculture, Food  
& Environmental Sciences

# GEORGE WURZEL PLANT SCIENCES BUILDING

*within the Plant Sciences Complex*



<b>1</b>	<b>Entomology Lab</b> .....	<b>\$1,000,000</b>
<b>2</b>	<b>Sustainable Water Solutions Lab</b> .....	<b>\$1,000,000</b>
<b>3</b>	<b>Chemical Storage</b> .....	<b>\$250,000</b>
<b>4</b>	<b>Student and Faculty Lounge</b> .....	<b>\$200,000</b>
<b>5</b>	<b>Technician's Office</b> .....	<b>\$150,000</b>
<b>6</b>	<b>Wellness Room</b> .....	<b>\$100,000</b>
<b>7</b>	<b>Collaboration Lab</b> .....	<b>\$1,000,000</b>
	<b>7A Conference Room</b> .....	<b>\$500,000</b>
	<b>7B Student Ideation Lab</b> .....	<b>\$400,000</b>
	<b>7C Office</b> .....	<b>\$100,000</b>

<b>8</b>	<b>Growth Chamber Lab</b> .....	<b>\$750,000</b>
	<b>8A Sterilization Lab</b> .....	<b>\$250,000</b>
<b>9</b>	<b>Plant Physiology Lab</b> .....	<b>\$1,000,000</b>
<b>10</b>	<b>Classroom</b> .....	<b>\$1,000,000</b>
<b>11</b>	<b>Classroom</b> .....	<b>\$1,000,000</b>
<b>12</b>	<b>Automation Plaza</b> .....	<b>\$250,000</b>

## **1 :: ENTOMOLOGY LAB**

An advanced applied entomology lab focused on:

- Evaluating and optimizing bioinsecticides for efficacy.
- Studying life history and behavior of organisms.
- Conducting insect monitoring and phenology in a space equipped with industry-standard technology.

Prioritizing environmentally friendly pest control solutions in alignment with the California Sustainable Pest Management Roadmap.

## **2 :: SUSTAINABLE WATER SOLUTIONS LAB**

In partnership with the BioResource and Agricultural Engineering Department, research in this lab will focus on water enrichment to improve water reuse in agriculture, with a biosafety level allowing for the study of indicator organisms for food safety, plant pathogens, and microbiome monitoring. The combination of water treatment systems, small vertical farm, microbiology equipment, and water quality instrumentation will facilitate water treatment with biological indicator testing to assess impacts on plant health.

## **7 :: COLLABORATION LAB**

A dedicated hub designed to facilitate students, faculty and industry to gather and collaborate. Included within are a Student Ideation Lab, an office for a dedicated technician to support all labs within the complex, and a conference room where industry and academia can come together in community.

## **8 :: GROWTH CHAMBER LAB**

The growth chamber lab will support all the research labs in the Wurzel Plant Sciences building. It will house numerous growth chambers of varying sizes allowing for controlled temperatures and atmospheres.

## **9 :: PLANT PHYSIOLOGY LAB**

Students and faculty will conduct research on crop health, including:

- Evaluating new plant varieties and cultivars.
- Researching novel herbicide efficacy.
- Monitoring herbicide resistance.
- Studying the impacts of drought and stress tolerance on crops.
- Studying mechanisms for biocontrol and integrated pest management strategies.

## **10 & 11 :: CLASSROOMS**

Two classrooms will be integrated into the facility, providing space for routine discovery.

## **12 :: AUTOMATION PLAZA**

The gateway to the Automation Lab within the complex will see hundreds of students, faculty and partners each day and serve as an outdoor gathering spot between labs and meetings.