



**OHIO**  
UNIVERSITY

**OFFICE OF SUSTAINABILITY**

## Drone-based Tree Inventory

**Possible Academic Connections:** Plant Biology, Environmental Studies, Geography, GIS

**Recommended project length:** Thesis

**Experiential Learning?** Likely

**Community Engagement?** Not Likely

**Remote learning possible?** No

**Connection to OHIO Sustainability & Climate Action Plan:** Grounds

**Brief description:** Determination of species, size and diversity of trees on Ohio University campuses.

### **Project description:**

Contribute to the tree campus inventory by determining species, size and diversity of trees and adding to existing database. This project will assist in improved management of trees on campus.

### **Resources available to students/faculty to complete project:**

- Equipment to measure tree size
- Landscape coordinator and GIS technician assistance
- Existing database
- Drone and drone pilot

### **Project alignment to OHIO Sustainability & Climate Action Plan:**

- € [Climate](#) (goal #1 and goal #2)
- € [Grounds](#) (goal #1)
- € [Human Resources](#) (goal #2)
- € [Student Life](#) (goal #1)
- € [Water](#) (goal #2)

- ☒ Offer opportunities to participate in or contribute to sustainability initiatives (Engagement core)

**Please send final project deliverables to [sustainability@ohio.edu](mailto:sustainability@ohio.edu) for tracking and reporting purposes.**