

Louise Ann Hosburgh

Education

BS, Environmental Sciences & Minor in Biological Sciences May 2017
Northern Kentucky University, Highland Heights, KY

Certification

ISA Certified Arborist # OH6926A March 2021

Research Experience

Plant Research Intern, May – August 2018

CREW Plant Research Division, Cincinnati Zoo and Botanical Garden, Cincinnati, OH

- Maintained tissue culture of the endangered plant, Todsens' Pennyroyal (*Hedeoma todsenii*)
- Collected samples in situ, sub-cultured in the lab, and acclimatized *Hedeoma* to Greenhouse
- Practiced cryopreservation techniques to preserve species for future research

Restoration Research Assistant, March - May 2017

Reforest Northern Kentucky, Northern Kentucky University, Highland Heights, KY

- Established sampling sites of native versus invasive species for past Reforest sites
- Created project maps using GIS (Geographical Information Systems)
- 100+ hours spent identifying various woody plant species

Wetland Research Assistant, May - August 2016

Wetland Research Laboratory, Northern Kentucky University, Highland Heights, KY

- Assisted in identification of wetland plant species
- Analyzed soil samples using X-ray Fluorescence (XRF) technology
- Performed statistical data analysis examining greenhouse gases fluxes

Mycology Lab Assistant, May 2015-Mar. 2017

Molecular Mycology Research Laboratory, VA Medical Center/University of Cincinnati, Cincinnati, OH

- Assisted with *in vitro* and *in vivo* experiments
- Maintained glassware, standard solutions, and consumables
- Maintained tissue culture cell lines
- Assisted in inventories of chemicals, supplies, and freezer stocks

Employment Experience

Laboratory Technician Senior, Feb. 2023 –Present
University of Kentucky

Dept. of Forestry and Natural Resources, Lexington, KY

- Support faculty regarding forest ecophysiology and wildlife research projects
- Assist with collecting data in the field, as well as data management and analyses
- Assist with teaching programs as necessary

Arborist, August 2022 – Feb. 2023
Tree Care Inc., Cincinnati, OH

- Identified and completed tree care requests from City Arborist
- Maintained the health and structure of urban trees
- Operated equipment such as elevated work platforms, grapple truck, and chainsaws

Arborist Climber, Sept. 2020 – Aug. 2022
Bartlett Tree Experts, Cincinnati, OH

- Determined goal outlined by arborist representative and client & completed tree care needs
- Climbed trees or use elevated work platform to remove branches or whole trees
- Operated all equipment including chainsaws, stump grinder, compact loader, brush chipper

Arborist Plant Health Care Technician, Feb. 2021 – Aug. 2022
Bartlett Tree Experts, Cincinnati, OH

- Identified pests and fungi that target specific tree species
- Treated and prevented pest and fungi infestations based on phenology
- Read soil analysis reports and fertilized trees based on results

Landscape Technician, Nov. 2019 – Mar. 2020
Stoneflow Landscapes, Louisville, KY

- Performed various work as needed moving rock, trimming shrubs, planting woody plants
- Operated chainsaws and other hand equipment when necessary
- Assisted with building projects utilizing power tools and hand tools as needed
- Measured and cut materials at the appropriate size needed for building projects