

Title: Graduate Assistantship in Plant Physiological Ecology

Location: Montana State University, Bozeman, Montana, USA

Categories: M.S. student

Compensation: Stipend, tuition waiver, health insurance, & student fees

Application deadline: April 1, 2020

Responsibilities

The Ulrich lab in the Ecology Department at Montana State University is seeking an independent and motivated M.S. student to investigate physiological responses of high-elevation conifer species including whitebark pine (*Pinus albicaulis*) to abiotic and biotic environmental stress and global change. Research projects include:

- intraspecific and interspecific drivers of physiological/functional trait expression (phenotypic plasticity, genotypic variation)
- physiological drivers of seedling establishment, survival, growth, and mortality
- physiological tolerances of, responses to, and recovery from environmental stress (heat, drought)
- effects of stress (heat, drought) on non-structural carbohydrate dynamics

There will be ample opportunity for the student to develop additional research questions related to these projects in the lab, growth chamber, greenhouse, and/or field. Research in the Ulrich lab focuses on understanding plant physiological responses to environmental stress (heat, drought, pest) and interactions with the environment using interdisciplinary approaches and tools at multiple temporal and spatial scales. More information is available at <https://daniellemulrich.weebly.com/>.

The M.S. position is supported for 2 years through teaching and research assistantships. The position begins August of 2020. Applicants interested in a Ph.D. opportunity may be considered.

Qualifications

Applicants require a Bachelor's degree in plant physiological ecology, plant physiology, or related field. Desirable qualifications include a strong interest in plant/tree physiology; experience making plant ecophysiological measurements in the lab, greenhouse, and/or field (e.g. gas exchange, water potential, chlorophyll fluorescence, non-structural carbohydrates); a considerable interest in quantitative analyses and writing; strong written and oral communication skills; desire to work both independently and collaboratively with others; and/or experience mentoring or supervising others.

Contact

To apply, please send an email with the subject "Grad Student Application" to: Dr. Danielle Ulrich (ulrichlab@montana.edu) that contains the following: (1) one-page cover letter describing your academic and research experience, reasons for pursuing graduate school, your specific current research interests, and how your research interests fit the lab; (2) curriculum vitae; (3) email address and phone number for three references; and (4) unofficial copy of university transcripts. Inquiries about the position are welcome.

Email: ulrichlab@montana.edu