

**Graduate Assistantship available (2018-20*)
in Pedology / Biogeochemistry / Hydric & Hydromorphic Soils**



An M.S. or Ph.D. graduate assistantship, starting in **Fall 2018**, is available in the Pedology Lab in the Department of Ecosystem Science and Management at the University of Wyoming. We seek a highly-motivated graduate student to conduct research on mechanisms and interactions involved in redox feature formation, climatic influence on biogeochemistry, impact of land use on soil development, or similar. The ideal candidate will have a degree in soil science, environmental science, ecology, biogeochemistry or closely related discipline with a strong interest in pedology, hydric soils, ecology, statistics, and modelling.

The currently funded study focuses on the following: The temporal and spatial heterogeneity of wetlands results in unparalleled research opportunities to examine the range in properties expressed in these ecosystems. The elevational gradient (8,000 - 12,000 ft) of the Snowy Range Mountains offers an ideal location to study the impact of climate (greater precipitation and lower temperatures with increasing elevation) on wetland processes, properties, and function. We will establish three wetland monitoring sites across this climatic gradient with focus on C decomposition and sequestration, hydroperiod, soil morphology, and vegetation community. Study sites will be instrumented with monitoring wells, piezometers, soil temperature sensors, and Indicator of Reduction in Soil tubes. Soil samples will be collected and analyzed for morphological, physical, and chemical properties while vegetation communities will be assessed in the field. <http://www.uwyopedology.com/research.html>

*Funding is guaranteed for 2 years with additional funding solicited through external sources in collaboration with PI. For more information, please contact Dr. Karen Vaughan, at karen.vaughan@uwyo.edu. If you would like to apply for this position, email Dr. Vaughan with "Fall 2018 graduate assistantship" as the subject line. Include the following in a single pdf: 1) statement of interest (visit http://www.uwyopedology.com/uploads/6/0/9/8/60988507/questions_for_ga_vaughan.pdf for questions to spur discussion); 2) complete CV; 3) unofficial transcripts; and 4) contact information for 3 references. You can apply online directly through the University (http://www.uwyo.edu/admissions/_files/docs/howtoapplytouw.pdf) but it is suggested you contact Dr. Vaughan first. Applications (emailed pdf) will be reviewed as they arrive and given full consideration if they are received by January 26, 2018.

*The University of Wyoming **Under-Represented Domestic Minority mentoring Graduate Assistantships (URDM)** are intended to increase access and opportunities to graduate education for U.S. students from under-represented/ under-served communities and to increase student diversity in our graduate degree programs on a competitive basis. The URDM awards are funded through a partnership of the Office of Academic Affairs and the faculty mentor(s) of the prospective student.*

The University of Wyoming is an Equal Employment Opportunity/Affirmative Action employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, sex, national origin, disability or protected veteran status or any other characteristic protected by law and University policy. Please see www.uwyo.edu/diversity/fairness.