Two PhD Opportunities in the Turner Lab, UW-Madison

Dr. Monica G. Turner in the Department of Integrative Biology will consider PhD student applications for Fall Semester 2022 in two general areas of ecosystem and landscape ecology.

(i) **Modeling Rocky Mountain Forest Dynamics**: We seek a PhD student with keen interest in research that integrates process-based simulation modeling of forest landscapes (using iLand) with field research to explore the future of northern US Rocky Mountain forests given changing climate and disturbance regimes. Collaborative research will build on a foundation of long-term data and model development. The successful candidate may have the opportunity to participate in field research in Greater Yellowstone during summer 2022. Support will be from both TA and RA appointments.

**Qualifications**: Applicants must have strong academic records, including quantitative skills; keen interest in simulation modeling, landscape ecology, forest ecology and wildfire; and excellent references. Prior research experience is highly desirable; experience with computer simulation or systems ecology is an asset. Applications are encouraged from outstanding candidates who thrive in a collaborative team setting, enjoy field and computer work, and have excellent communication and writing skills.

(ii) **Urban Landscape Ecology**: We seek a PhD student interested in urban landscape ecology, especially involving urban aquatic ecosystems, consequences of extreme events (such as high-intensity rainfall), and interacting drivers of change. Collaborative research will contribute to the North Temperate Lakes LTER site and build on understanding of ecosystem services in the agricultural-urban Yahara Basin (which includes Madison), the ecological roles of urban green space and aquatic ecosystems, and interactions between climate and urban land use/land cover. Support will be from both TA and RA appointments.

**Qualifications**: Applicants must have strong academic records, including quantitative skills; keen interest in urban ecology, including ecosystem services and land-water interactions, and landscape ecology; and excellent references. Prior research experience is highly desirable, and experience with urban ecology, aquatic ecosystems, or “working landscapes” is an asset. Applications are encouraged from outstanding candidates who thrive in a collaborative team setting, enjoy field and computer work, and have excellent communication and writing skills.

**To apply**: Prospective applicants are strongly encouraged to contact Dr. Turner (turnermg@wisc.edu) regarding their interests. Prospective applicants are encouraged to peruse the lab web site http://landscape.zoology.wisc.edu/ and visit http://ecology.wisc.edu/ for more information about ecology at UW-Madison. Applications to Integrative Biology for 2022 are due 1 December 2021.

UW-Madison is an equal opportunity employer, and specifically invites and encourages applications from women and minorities. The Immigration Reform and Control Act of 1986 requires the University to verify the identity and work authorization of the successful applicant. Any offer of employment is contingent upon verification.

24 September 2021