

MICHIGAN STATE UNIVERSITY

Michigan State University graduate student opportunities in carbon cycle science

The Department of Geography, Environment, and Spatial Sciences and Center for Global Change and Earth Observation (CGCEO) at Michigan State University (MSU) are pleased to announce at least two graduate student positions in Socioecological carbon production in managed agricultural-forest landscapes.

Successful candidates will possess and demonstrate relevant interest and skills in one or more of the following topics: (1) Bottom-up scaling of landscape C fluxes from in situ measurements (eddy covariance, chambers, and biometric sampling); (2) Top-down estimates of C fluxes from a land surface model (the Community Land Model); (3) land cover remote sensing across multiple sensors; (4) socioecological analysis of managed landscapes including life cycle analysis and structural equation modeling.

Successful applicants will play a significant role in research funded by the NASA Carbon Cycle Science program. This work focuses on understanding the quantitative contributions of land cover change, specific management practices, and climate changes to the social and physical C fluxes of managed ecosystems, with an initial focus on the Kalamazoo River watershed in Michigan. Strong candidates will have experience with collaborative interdisciplinary work.

If you have questions about these positions please contact Dr. Jiquan Chen (jqchen@msu.edu) and/or Dr. Kyla Dahlin (kdahlin@msu.edu). For more information about our groups, check out the LEES Lab (<http://lees.geo.msu.edu/>) and the ERSAM Lab (<http://www.msu.edu/~kdahlin>) webpages. More information about the project can be found at: <http://lees.geo.msu.edu/research/nspires/>.



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Students will be expected to produce compelling scientific articles for publication in peer-reviewed journals. These PhD in Geography positions are fully funded for three years. This includes an annual stipend plus tuition and fees and involves collaboration with researchers in the Department of Geography, Environment, and Spatial Sciences, the CGCEO, and the Kellogg Biological Station (KBS). The ideal candidates should be highly motivated individuals with strong interests in one or more of the above topics. The successful applicants will have the opportunity to present the results of their dissertation project at annual meetings and scientific conferences.

Preferred qualifications: MSc. degree in Geography, Ecology, or a related field. Application deadline is February 1, 2017 (or until position is filled). Starting date: Fall 2017 (Classes start on August 30, 2017). Information about requirements and applying to the Geography program can be found here: <http://geo.msu.edu/graduate-information/apply/> and in the most recent Graduate Handbook here: <http://geo.msu.edu/wp-content/uploads/2016/09/Graduate-Handbook-2016-%E2%80%93-2017.pdf>

MSU is an equal opportunity employer. The Department of Geography, Environment, and Spatial Sciences, the CGCEO, the LEES Lab and the ERSAM Lab are all committed to promoting diversity in research.