

Position Open

Post-doctoral Associate

Black Carbon Stocks in Soils of the United States

Within a USDA-NASA-funded project, a post-doctoral associate will develop a spatial analysis of black (pyrogenic) carbon stocks of soils throughout the United States. Black carbon may constitute a large proportion of total organic matter in soils, but little information is available about the magnitude and its regional or global distribution. Through collaboration with CSIRO in Australia, USGS, and various academic institutions in the US, this project seeks to make the first step in providing an assessment of the black carbon stocks in US soils. The candidate will use geographic information systems, develop a spatial understanding of the sources and sinks of black carbon through assessments of fire frequency, severity, biomass production, transport and decomposition on a regional scale. The long-term goal is to integrate black carbon fluxes into climate models.

Requirements: PhD in environmental or earth sciences, strong skills in spatial modeling at continental or global scale with respect to carbon cycles, basic understanding of vegetation and soil processes and the ability to integrate between disciplines.

To ensure full consideration, applications will be accepted until the position is filled. The position is initially for one year.

Applicants should submit a curriculum vitae, and names of three references. Please contact and send applications to: Johannes Lehmann, Cornell University, Department of Crop and Soil Sciences, Ithaca, NY, USA; Phone: 1-607-254-1236, email: CL273@cornell.edu

Cornell University is an equal opportunity employer and welcomes applications from women and ethnic minorities.