

POSTDOCTORAL RESEARCH FELLOW POSITION

School of Natural Resources and Environment (SNRE), University of Michigan, Ann Arbor

SNRE is seeking to fill a postdoctoral research fellow position to conduct research in terrestrial ecosystems and to be advised by Drs. William S. Currie and Donald R. Zak. Research focuses on forest ecosystem biogeochemistry, ecosystem modeling, regional scaling and geographic information systems. Research objectives are as follows. First, to use biogeochemical information from a decadal, field-based experimental manipulation of atmospheric N deposition in Michigan forests to refine and update the TRACE model with the new understanding we have gained regarding the effects of simulated N deposition on fungal decomposition in soils and the resulting alterations in ecosystem carbon balance. Second, in direct model-data comparisons, test the ability of the refined model to simulate the flow of ^{15}N in one of the four research sites (Pellston) that has received an enriched ^{15}N tracer. Third, to use the refined, tested model to scale this new understanding about N deposition effects on C storage pools across the region in a spatially explicit manner. GIS data layers will be used and will be coupled to the TRACE model in the Visual Basic language. Writing peer-review manuscripts and presenting the work at a regional or national meeting is an expectation of any successful candidate. Applicants should have a working understanding of isotopic tracers, ecosystem modeling, and GIS. Experience with an advanced programming language, particularly Visual Basic, is desired. A completed PhD degree is required. Salary is \$40,000 per year, plus a generous benefits package. This position is expected to begin in fall 2009 and continue for up to 14.5 months. To apply, send a letter of interest that addresses each of the qualifications listed above, digital copies of publications, a curriculum vitae, transcripts or list of courses taken with grades, and names and contact information for two references to William S. Currie at SNRE. The University of Michigan is an equal opportunity/ affirmative action employer.