

**Post-doc position in carbon and nutrient cycling in agricultural systems is available at SLU:** <http://www.slu.se/en/shortcuts/jobs-and-vacancies/>

We are looking for a postdoc joining our work on carbon and nutrient cycling in agricultural systems. The main focus is on the effects of different management options such as crop rotations, cover crops, residue handling and fertilization on soil carbon and nutrient cycling. We have access to large comprehensive databases from long-term field experiments, monitoring programs, eddy-flux data and regional agricultural statistics. They are used in system analysis including dynamic modeling and development of tools for agricultural extension programs, evaluation of ecosystem services, lifecycle analysis and national environmental reporting.

At the Department of Ecology, SLU we conduct both empirical and theoretical research for sustainable forest and agricultural production and efficient biological conservation. Our research on populations, communities, and ecosystems forms the foundation for studying the influence of land use and climate change on animals, plants and soils. Solutions are sought that will improve greenhouse gas balances, preserve threatened species, benefit biological diversity and ecosystem services, sustainable wildlife management and control pests in forest and agricultural landscapes as well as in urban areas.

**Duties:** You are expected to conduct research on carbon and nutrient cycling in agricultural systems which will involve statistical analysis of data series at field and regional scale as well as dynamic modeling. You will be collaborating with researchers and PhD students working on ecosystem processes and general questions about element cycling in agricultural ecosystems. The position is only partly linked to specific projects. Thus, there will be enough freedom for developing your own research ideas in cooperation with your mentor and other scientist at SLU.

**Qualifications:** Applicants should hold a PhD in agronomy, ecology, soil science, environmental science or similar disciplines, not older than 3 yrs. Documented experience in developing or applying soil and ecosystem models, including the use and analysis of high-resolution climatic data is highly desirable. Skills in mathematics, programming (e.g. SAS or R software), GIS and statistics are of advantage. The applicant is expected to have excellent oral and written communication skills.

**Place of work:** Uppsala

**Form of employment:** Temporary employment as postdoctor for 2 years

**Extent:** 100%

**Starting date:** By agreement

**Application:** We welcome your application marked with **Ref no. SLU ua 2087/2016**.

Please submit your application to the Registrar of SLU, P.O. Box 7070, SE-750 07 Uppsala, Sweden or [registrator@slu.se](mailto:registrator@slu.se) no later than **July 6, 2016**.

Specific documents attached: (1) CV with full publication list, (2) a description of research experiences, (3) a statement of scientific interests as well as (4) contact information of two referees.

SLU is an equal opportunity employer.

The application has to be written in English