

Post-doctoral position in ecology

We seek a post-doctoral scholar to work on the European BiodivERsA project "CROSSLINK: Understanding cross-habitat linkages between blue and green infrastructure to optimize management of biodiversity, ecosystem services and multiple human uses." Streams and their associated riparian habitats support life by supplying freshwater, and underpin landscape integrity, e.g. by transporting nutrients. However, stream-riparian networks are also subject to many pressures, e.g. from agriculture, hydropower, and urbanization, which affect network connectivity, both longitudinally (e.g. dams etc.) and laterally with the riparian zone, threatening unique habitats, biodiversity, and ecosystem services. CROSSLINK is a collaborative project involving ecologists and data modelers from five European nations, focused on how connectivity in riparian-stream networks regulates local scale biodiversity and ecosystem functioning.

The Department of Aquatic Sciences and Assessment (<http://www.slu.se/en/departments/aquatic-sciences-assessment>) is a competence center for applied environmental science with national responsibility for monitoring of the environmental status in Swedish lakes and streams. The department is part of a Soil-Water-Environment cluster and has approx. 100 employees among which approximately half are researchers/PhD students and half are technical staff. The research focuses on geochemical and hydrological processes, aquatic ecology and biodiversity, as well as on aquatic ecotoxicology and environmental chemistry.

Duties: The successful candidate is expected to play a leading role in the design and execution of comprehensive field-based investigations into how network position, land use, buffer strips and network connectivity affect biodiversity and ecosystem functioning in linked riparian-stream habitats. Depending on the skills of the successful candidate, the project may also involve significant components of Geographic Information Systems analysis, and/or hydrological modeling. The position is based at the Department of Aquatic Sciences and Assessment in Uppsala, but the post-doc will also have the opportunity to interact with staff from the Department of Ecology, as well as the other international partners involved in the project.

Qualifications: The successful candidate will have a PhD not older than 3 years in ecology or equivalent, with a focus on freshwaters and/or soil ecology. A current drivers license is essential. Advanced skills in statistical analysis using the software "R" are highly desirable, as is evidence of scientific publication in English. A working knowledge of Geographic Information Systems would be considered highly meritorious. Additional skills which are advantageous but not essential include: (i) previous experience working with stable isotopes, polyunsaturated fatty acids and/or approaches to quantifying ecosystem functioning in stream or terrestrial environments; (ii) previous experience in conducting terrestrial vegetation surveys (iii) knowledge of the taxonomy and ecology of aquatic and/or terrestrial invertebrates, or aquatic diatoms. Applicants will be evaluated on their scientific potential and achievements, motivation for the proposed research, and attributes for working in a team on a large project.

Place of work: Uppsala

Form of employment: Temporary employment as postdoctor for 2 years, with possible extension one year.

Extent: 100%

Starting date: By agreement, but preferably no later than Febr 28th 2017

Application: We welcome your application marked with **Ref no. SLU ua 4087/2016**.

The Swedish University of Agricultural Sciences (SLU) develops the understanding and sustainable use and management of biological natural resources. The university ranks well internationally within its subject areas. SLU is a research-intensive university that also offers unique degree programmes in for example rural development and natural resource management, environmental economics, animal science and landscape architecture.

SLU has just over 3,000 employees, 5,000 students and a turnover of SEK 3 billion. The university has invested heavily in a modern, attractive environment on its campuses in Alnarp, Umeå and Uppsala.

www.slu.se

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Please submit your application to the Registrar of SLU, P.O. Box 7070,
SE-750 07 Uppsala, Sweden or registrator@slu.se no later than **November
14, 2016**.

Specific documents attached: 1) CV with publications list, 2) transcript of
PhD-exam, 3) a description of earlier research and scientific interests, as well
as 4) names and contact information for two reference persons.

SLU is an equal opportunity employer.