

# Postdoc: Modelling future biodiversity, ecosystem services and climate

## SLU Swedish Species Information Centre

SLU Swedish Species Information Centre is a national center for species and habitats. We contribute to a sustainable management of the natural resources by collecting, analyzing and making data available, and by describing and presenting facts about biodiversity. We interact nationally and internationally, with the benefit of conservation in focus. Now we recruit a person who will model and project the distribution and dynamics of biodiversity and ecosystem services given scenarios for the future.

### Duties

Depending on your expertise, you will develop models for the spatial distribution or dynamics of forest species, or make projections and optimizations using available models for biodiversity and ecosystem services assuming scenarios for the future. We answer ecological and conservation questions based on modelling distribution patterns or (meta)population dynamics of birds, beetles, plants, bryophytes, lichens and fungi. We further study how scenarios of socio-economic policy or development, climate change or forest management on different spatial scales (global, EU, landscape) may affect the future biodiversity, ecosystem services and climate. We also investigate conflicts and synergies between these responses using a simulation & optimization framework. The work is funded by Formas and the ForestValue project SustMultBiomass.

### Qualifications

At the time of employment, the candidate must hold a PhD in ecology, conservation biology, forestry planning or equivalent. Required is earlier research on modeling species or community distribution or dynamics. Beneficial are research on forest use or on how land-use affects the climate. Good knowledge of analysis using the software R is desirable. Priority will be given to applicants who have completed their PhD within three years before the application deadline. This time span is however not a requirement - we are seeking a highly motivated person who is keen to contribute to this expanding, multidisciplinary research field.

**Place of work:** Uppsala

**Form of employment:** Temporary employment 24 months with possibility for extension

**Extent:** 100%

**Starting date:** According to agreement

**Application:** We welcome your application by **April 2, 2023**. Please use the Apply button below.

Specific documents attached: CV including list of publications, maximum three papers, a description of earlier research (maximum two pages), of current research interest and the research that you would like to conduct within the position (maximum two pages), name and address to at least two reference persons. We may ask you to send your PhD thesis at a later stage.

### Academic union representatives:

<https://internt.slu.se/en/my-employment/employee-associations/kontaktpersoner-vid-rekrytering/>

**The Swedish University of Agricultural Sciences (SLU)** is a world-class international university with research, education and environmental assessment within the sciences for sustainable life. Its principal sites are in Alnarp, Umeå and Uppsala, but activities are also conducted at research stations, experimental parks and educational establishments throughout Sweden. We bring together people who have different perspectives, but they all have one and the same goal: to create the best conditions for a sustainable, thriving and better world. 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. [www.slu.se](http://www.slu.se)

### Kontaktperson:

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