

Researcher

within sustainable development of cropping systems

To be placed at the LTV-Faculty in Alnarp, The Department of Biosystems and Technology. The Department is teaching and researching within agricultural and horticultural sciences. The subject area of cropping systems ecology is developing the knowledge on the interaction of cultivated crops with each other, cultivation methods and the surrounding environment, including farmer and societal values. Research and teaching aim at improving the sustainability of cropping systems for production of food and feed within conventional and organic agriculture. The activities of the subject area combine strategic and applied research in collaboration with the agricultural sector.

The subject for the position relates to one of the strategic SLU areas, "Sustainable and secure food supply", which is closely linked to the "Swedish national food strategy 2030". The strategy aims at an increased and sustainable production of food, which also lead to sustainable growth. A sustainable and secure food supply imply that agricultural cropping systems are studied and developed from production, environmental, economic and social aspects.

Swedish agriculture is facing several sustainability challenges, e.g. to reduce environmental impact according to the national environmental goals, to improve farm economic viability and increase the conventional and organic production of food for domestic and international markets, while the agricultural production is developed in a climate change perspective (reduced green-house gas emissions and adaption to changed climatic conditions). This requires a sustainable development of Swedish crop production, e.g. that the production depends to a greater degree on ecosystem services, reduced and more efficient use fertilizers, more integrated weed, pest and disease management and more focus on crop rotation and other types of planned diversification.

Duties:

The position includes research and teaching with focus on crop production in Scandinavian conditions with major focus on cropping systems for agricultural and open-field horticultural crops, and may include case studies in close contact with actors within the sectors. Research is also expected to be carried out in a newly established field experimental facility to study research questions at the cropping systems level. The position includes collaboration with the Department of Work Science, Business Economics and Environmental Psychology, at SLU in Alnarp. Collaboration is mainly on research questions related to business development in the agricultural sector, incl. enhanced transformation to more sustainable production systems.

Qualifications:

The applicant must be agronomist, horticulturist or similar with a PhD in agricultural, horticultural sciences or biology with documented research experience within one or several of the following subjects: cropping systems research, weed science, crop production science, plant nutritional science or soil science.

The applicant should master, or within 2 years have obtained competence in speaking, a Scandinavian language, since teaching at basic levels is part of the position. Documented pedagogic experience is a requirement. Broad competence within agricultural crop production and experience on research in collaboration with actors, advisors or other parts of the sectors are meritorious. Documented experience from research in interdisciplinary and system-oriented projects as well as knowledge on sustainability assessment will have great weight in the evaluation of applicants. Very good language skills in English and a driver license are fundamental requirements.

Place of work: Alnarp

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

The Faculty of Landscape Architecture, Horticulture and Crop Production Science (LTV) is responsible for research, teaching, environmental monitoring and assessment as well as outreach and collaboration in the fields of landscape planning and horticulture. The LTV Faculty is also active in the fields of agriculture, food, production, health, quality of life, environment and water.

The majority of the faculty's employees and students are based on Campus Alnarp, between Lund and Malmö. The LTV Faculty houses six departments and a large number of collaborative centres.

Further information:

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Form of employment: Permanent.
SLU uses probationary employment.

Extent: 100 %

Starting date: By agreement

Application: We welcome your application marked with **Ref no. SLU ua 1467/2017**.

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 **May 19, 2017**.

Specific documents attached:

- A short letter (max. 2 pages) describing why you are interested in the position and summarizing your past research achievements and skills of relevance for the position
- CV, including academic achievements
- Copy of PhD diploma
- List of publications (where all publications derived from the PhD thesis are clearly marked)
- Contact details of two reference persons (name, telephone number and email address)

SLU is an equal opportunity employer.

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