

Ph.D. ProRefine - Biorefining forage legumes for local  
production of protein feeds  
Swedish University of Agricultural Sciences

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<b>Job Title</b>	Ph.D. ProRefine - Biorefining forage legumes for local production of protein feeds
<b>Department</b>	Agricultural Research for Northern Sweden <a href="https://www.slu.se/en/departments/agricultural-research-northern-sweden/">https://www.slu.se/en/departments/agricultural-research-northern-sweden/</a>
<b>Institution</b>	Swedish University of Agricultural Sciences Umeå, Västerbotten, Sweden
<b>Date Posted</b>	Mar. 13, 2018
<b>Application Deadline</b>	Apr. 15, 2018
<b>Position Start Date</b>	Available immediately
<b>Job Categories</b>	Graduate Student
<b>Academic Field(s)</b>	Dairy Science Animal Science Agronomy/Plant & Soil Sciences Agricultural - General
<b>Job Website</b>	<a href="https://www.slu.se/en/education/programmes-courses/postgraduate-studies/new-phd-student/Read-more/?sprak=e&amp;Uid=2270">https://www.slu.se/en/education/programmes-courses/postgraduate-studies/new-phd-student/Read-more/?sprak=e&amp;Uid=2270</a>

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**Job Description**

PhD position in the research education subject: Crop Production Science

ProRefine - Biorefining forage legumes for local production of protein feeds

The Department of Agricultural Research for Northern Sweden offers a position as a PhD student in

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the research education subject: Crop Production Science. The department specialises in applied agriculture with a holistic view, which includes both crop and animal sciences, and has a clear focus on forage based dairy production systems. The department includes a research station, Röbbäcksdalen. The research station is situated close to Umeå city centre and includes both a modern research barn with dairy cows, and excellent conditions for field experiments. Umeå is an expansive city with two successful universities, SLU and Umeå University. Read more about us on <https://www.slu.se/en/departments/agricultural-research-northern-sweden/>.

#### The Project - ProRefine

In Sweden, livestock production, particularly ruminant production, dominates agriculture. Supply of feed protein is critical for animal production, particularly on organic farms, and many farmers rely on imported protein supplements. Grain legumes are a good source of protein; however cultivation of grain legumes in Sweden is risky due to the climate, compared with cultivation of forage legumes like red clover and lucerne. Fractionation of forage legumes, through novel harvesting and biorefining techniques, into protein- and fibre-rich feeds for monogastrics and ruminants respectively, could increase farm self-sufficiency in protein feed.

The objectives of this PhD project are to assess the potential for using bio-refining techniques to produce protein-rich feeds from forages and assess the feed value of the fibre-rich fraction for ruminants. It will include field studies, assessing the quality of plant fractions, and predictive modelling of forage quality. The PhD project is part of a larger European project and there will be opportunities for interacting with scientists from other countries.

#### Qualifications

Applicants should have an agronomist or Master of Science degree in crop science or animal science or a related discipline. Experience with field experimentation, forage quality, statistical analysis and simulation modelling are meriting. Good skills in English (both written and oral) are required, and the ability to understand and speak Swedish or another Scandinavian language is meriting.

SLU is an Equal Opportunity Employer.

A person has basic eligibility for third cycle education if they have taken a second cycle qualification or have completed course requirements of at least 240 higher education credits, including at least 60 higher education credits at second cycle education. Upper secondary school grades equivalent to English B/English 6 are a basic requirement.

Selection among applicants meeting the requirements is made with reference to written application

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including curriculum vitae, copies of degrees and transcripts of academic records, one copy of the dissertation for masters or undergraduate degree, a list of at least two references familiar with the applicant's qualifications, certified knowledge of the English language and an interview.

Read about the PhD education at SLU at [www.slu.se/en/education/postgraduate-studies/](http://www.slu.se/en/education/postgraduate-studies/)

To Apply, please submit your application to [registrator@slu.se](mailto:registrator@slu.se) marked with ref no 2018.2.5.1-904

Further information:

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### **EEO/AA Policy**

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### **Contact Information**

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

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