

# Professor of Production Systems

**Ref:** 2017/1973

At Mälardalen University people meet who want to develop themselves and the future. Our 15 000 students read courses and study programmes in Business, Health, Engineering and Education. We conduct research within all areas of education and have internationally outstanding research in future energy and embedded systems. Our close cooperation with the private and public sectors enables us at MDH to help people feel better and the earth to last longer. Mälardalen University is located on both sides of Lake Mälaren with campuses in Eskilstuna and Västerås.

At the School of Innovation, Design and Engineering our students are studying to be for example innovators, entrepreneurs, illustrators, communications officers, network technicians and engineers. Here we have the research specialisations of Embedded Systems, and Innovation and Product Realisation. Our work takes place in cooperation with and in strategic agreements with companies, organisations and public authorities in the region.

## Employment information

Employment: Permanent employment

Scope: Full time

Closing date for application: 2017-10-17

Campus location: Eskilstuna

School: School of Innovation, Design and Engineering, (IDT)

The School of Innovation, Design and Engineering (IDT) is seeking to recruit a professor for the Division of Product Realisation within the research specialisation of Innovation and Product Realisation (IPR). The professorship is part of the University's strategic investment for continued strengthening and development of the research specialisation within IPR. IPR is a unique multidisciplinary environment and meeting place for three first-cycle subjects, research studies within the domain of Innovation and Design, and cooperation with the private sector within the three strategic cooperation platforms of Automation Region (AR), Mälardalen Industrial Technology Center (MITC) and Robotdalen (Robot Valley). Within the School, IPR also conducts research in cooperation with the research specialisation of Embedded Systems. Within IPR today there are four research teams: Product and Production Development, Workplace Innovation and Quality Management, Information Design, and also Value-driven Innovation and Foresight.

Thereby IPR will be strengthening its research and research studies with a well-established and experienced professor of Production Systems with specialisation in Production Development. Thus IPR will be strengthened as a research base for the M.Sc. in Engineering programmes in Product and Process Development as well as Innovation and Design, among others.

The relevant areas of skills for the professorship include:

- Virtual production development
- Development, operation and management of production systems
- Production strategies and automation
- Modelling and simulation of production systems and processes

## Position description

Duties will include research, research supervision, continued development of the Product and Production Development research team, development of a profiling of IPR, applying for funding, and also teaching at first- and third-cycle levels. The post also includes developing and driving ongoing projects for Production Development within the initiative for Excellence in Production Research (XPRES), a cooperation project between Mälardalen University, the Royal Institute of Technology and Swerea IVF (the Swedish Research Institute for Industrial Renewal and

Sustainable Growth). XPRES is one of two state-funded Swedish strategic initiatives for excellent research in Production Engineering.

## Qualification requirements

Scientific skills will have been demonstrated by independent research work which to a significant degree exceeds the requirements for docent competence (see the University's Guidelines for assessment of docent competence).

Importance is also attached to the planning and leading of research. Apart from this, scientific skills shall have been demonstrated by the ability to achieve results in research by cooperation in joint projects for the benefit of academia and industry/the public sector/society in general, and by the ability to disseminate research.

Teaching skills will have been demonstrated by teaching at first-cycle as well as third-cycle levels. The assessment of teaching skills shall apply to the planning, carrying out and evaluation of teaching as well as supervision and examination. Teaching skills shall be documented in such a way that their quality can also be assessed.

The applicant should have completed ten weeks of training in higher education teaching and learning, or have otherwise acquired equivalent knowledge. A person appointed as a Professor but lacking training in higher education teaching and learning will be offered in-house training during the first year. The course in higher education teaching and learning at Mälardalen University corresponds to ten weeks of training.

For other information, consult the Higher Education Ordinance, Chapter 4, and the Appointments Procedure for Mälardalen University.

For this post, documented scientific skills and experience within the field of Production Development and Industrial Manufacturing are required. Furthermore, documented experience from teaching at an academic level and from interfunctional cooperation are required.

Qualified knowledge and experience from applied research and development projects in Production Development in close cooperation with the private sector is a requirement since MDH has shown that co-production is a highly successful way of conducting research and product development.

Good communicative abilities in English are a requirement since international contacts and cooperation is of great interest, and since most of the advanced courses are given in English.

## Assessment criteria

The assessment criteria shall be based on the degree of skills required for the appointment. In general terms, the ability to cooperate as well as the ability and suitability otherwise needed to carry out the duties well are required.

The same attention shall be paid to the assessment of teaching skills as to the assessment of scientific or artistic skills.

Decisive importance is attached to personal suitability. The applicant shall have the opportunity of working largely in the city of posting. We value the qualities that an even distribution of age and gender, as well as ethnic and cultural diversity, can contribute to the organisation.

The applicant shall be able to provide references which demonstrate the ability to make contacts easily and create dialogues with companies and organisations and also to inspire cooperation and network building.

The post includes supervision of doctoral students, and therefore training and experience as a principal supervisor in research studies is necessary.

## Merit

Documented experience of applying for and obtaining research funding will be considered a merit. The work as a professor also implies administrative work, so experience of administrative work and management roles is desirable. Work outside academia in the development of production systems and also in interfunctional cooperation is also considered a merit.

Good communicative abilities in Swedish is to advantage since this facilitates participation in the earlier years of first-cycle studies. Since the post aims to strengthen the development of the research team in Product and Production Development and also the research specialisation of IPR, it is regarded as a merit to be able to demonstrate the ability to build up a research team in which a leading function has been of central importance.

## Application

Application is made online. Make your application by clicking the "Apply" button below.

The scientific publications that you do not have in digital form are to be sent by post in three copies to:

Mälardalen University  
Division of Human  
Resources  
Ref.no: 2017/1973  
Box 883  
721 23 Västerås

The applicant is responsible for ensuring that the application is complete in accordance with the advertisement and will reach the University no later than closing date for application.

We look forward to receiving your application.

We decline all contact with recruiters and salespersons of advertisements. We have made our strategic choices for this recruitment.

### Contact person

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