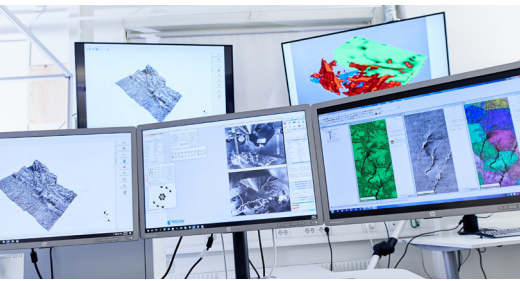




JÖNKÖPING UNIVERSITY  
*School of Engineering*

# MASTER IN PRODUCT DEVELOPMENT

SPECIALISED IN MATERIALS AND MANUFACTURING



BOOST YOUR CAREER AND PROMOTE INNOVATION IN THE FOUNDRY INDUSTRY

# STUDY OUR ONLINE MASTER PROGRAMME

Developed by The School of Engineering, the foundry industry, the Swedish Foundry Association and Swerea SWECAST.

After the studies, you will be highly skilled and valued in various areas such as product development, purchasing and quality departments at the foundries and end users of cast components. Your degree allows you also for a research career at institutions and/or universities.

## PROGRAMME SHORT FACTS

- Online courses, studied half-time, give opportunities to combine studies with work and to study wherever you live.

- Access video lectures online and interact continuously with teachers and students via discussion forum and e-meetings.
- Intended for both professionals and students coming straight from university who want to specialize in cast materials and processes.
- Highly skilled and experienced scientists as teachers from academia/research institutes and related industries.
- Continuous and direct contact with related industries throughout the program, where industry relevant challenges are prioritized.

## COURSE OVERVIEW

SEMESTER 1 - AUTUMN 2018

SEMESTER 2 - SPRING 2019

COURSE BLOCK 1				COURSE BLOCK 2		
Component casting, 6 credits <b>W.34-41</b>	Melting and casting of ferrous alloys, 3 credits <b>W.41-44</b>	Moulding materials in foundry technology 3 credits <b>W.45-48</b>	Environmental impact assessment of castings 3 credits <b>W.49-02</b>	Material testing and characterization, 6 credits <b>W.3-10</b>	Failure analysis, 6 credits <b>W.11-18</b>	Cast design and calculation 3 credits <b>W.19-22</b>

SEMESTER 3 - AUTUMN 2019

SEMESTER 4 - SPRING 2020

COURSE BLOCK 3			COURSE BLOCK 4
Microstructural engineering, 6 credits <b>W.34-41</b>	Analysis of casting defects, 3 credits <b>W.41-44</b>	Modelling and simulation of castings, 6 credits <b>W.45-02</b>	Project work, 15 credits <b>W.3-22</b>

If you are interested in individual courses, please visit [ju.se/mam](http://ju.se/mam). The programme runs as half time and is taught in English.





“It’s highly appreciated to get to know other students and their companies. Through them and their experiences you get many different perspectives.”

- Satisfied student

## VOICES ABOUT THE PROGRAMME:



### **Holger Schmidt**

– I’m very happy with the short video lectures where you can pause or watch again. E-meeting is a very good way of communicating even if the time sometimes feels too short for all discussions.



### **Magnus Holmgren**

– I like to mix work with studies. It inspires me and gives me both theoretical and practical knowledge. Through the courses, you also get a good professional networking opportunity.

More information on our web site  
**JU.SE/MAM**

The programme is run by Jönköping University with the task to strengthen Sweden's competitiveness and ability to create value in the foundry industry.