Would you like to have a career that revolves around management, leadership, and innovation? Uppsala University offers you a good base for a career in technology-intensive, innovative businesses in different industries. Whether you start up your own business or work for an established company, the Master Programme in Industrial Management and Innovation gives you a deep understanding as well as a variety of tools to manage complex innovation processes.

Complexity means that there are no pure technical issues; just as little as there are pure economic or organisational issues, neither in companies nor in society more generally. The steps between technology development, production, marketing and sales always involve considerations of a technical, economical, societal, and organisational nature. They often give rise to complex questions. Solutions will require deep understanding and practical skills.

Innovation is more important now than ever before. The industrial landscape of today is facing increased competition, rapid changes in consumer demands, political and regulatory instability, and growing environmental and societal challenges. For businesses to remain competitive and even excel in this new complex setting, it is important to be in the forefront of innovation and business development and to have an overall perspective on technology, leadership, and international business.

ABOUT THE PROGRAMME

The aim of this programme is therefore to teach future leaders the ability to create an overview of the complex processes and structures within and around technology-intensive companies. Our aim is also that students who have completed the programme will become innovators who can combine a deep understanding of technology and business with a strong practical know-how on how to manage and lead innovative work. The Master’s programme is also preparing you for a career within academia as a researcher.

A unique feature of this programme is that it is close to both industry and research. The students of the programme come from different technological backgrounds and are trained to handle technical, societal and economical dimensions of the innovation process.

The goal of the programme is to be able to work with innovation processes in different types of companies. To be well prepared for your future job, teaching is based on methods and models used in business, for understanding existing markets, product development, and market launch. At the same time, the latest academic research is an important part of our courses to keep up with the latest developments. After completing the program, you will have knowledge of, amongst other things:
- **Business**: What is needed for innovations to generate money? How do you estimate the economic value of new products? What investments should your company pursue?

- **Product Development**: How do you go from an exciting idea to a realised product? What are the requirements for the products to be launched within reasonable limits in terms of money, time, and quality?

- **Marketing**: How do you analyse markets? How do you understand customers and build customer relationships to successfully market technological products and services?

- **Organisation and Leadership**: How do you organise and lead the innovation process? How do you manage interactions within and between complex organisations, both in terms of formal and informal structures?

- **Project Management**: How do you organise and lead the innovation process? How do you manage interactions within and between complex organisations, both in terms of formal and informal structures?

- **Societal aspects**: How do you ensure that the innovation work goes hand-in-hand with concerns of societal well-being, ethics, and environmental responsibility?

- **Presentation skills**: How do you most successfully present your ideas and proposals to a variety of audiences, including boards of directors, partners, managers, and co-workers?

The first year of the programme consists of courses in innovation management, project management, business, industrialisation, engineering ethics, etc. In addition to courses, towards the end of the first year, you apply your knowledge in a larger commercialisation project carried out as a group project.

During the second year, you specialise in the field of management of technological innovation. You take courses such as philosophy of innovation, qualitative and quantitative methods, as well as elective courses. In the second semester of the second year, you conduct an independent project.

**DEGREE**

The programme leads to a Master of Science degree (120 credits) with Industrial Engineering as the main field of study.

**INSTRUCTION**

The teaching consists of lectures, group exercises, labs, seminars, project work and field trips. During the programme you will attend seminars where you, together with other students, discuss concrete business problems and different cases. Many courses contain project work in small groups. The programme takes place in Uppsala.

The teachers in the programme are active researchers with deep expertise in their fields. Also, close ties with the industry are ensured in the form of field trips, guest lectures and various projects, where you will meet people with extensive experience of innovation outside the university.

The language of instruction is English.
COURSES WITHIN THE PROGRAMME

**Semester 1**
- Industrial Management, 5 credits
- Industrial Strategy and Organisation, 5 credits
- Industrial Project Management, 5 credits
- Innovation Management, 5 credits
- Industrial Project Management II, 5 credits
- Marketing for Industrial Companies, 5 credits

**Semester 2**
- Techniques for Modelling and Optimisation in Industrial Management, 10 credits
- Engineering Ethics, 5 credits
- Product Development Management, 5 credits
- Project: Product Development/Market Research, In-depth, 5 credits
- Industrialisation, 5 credits

**Semester 3**
- Philosophy of Innovation, 10 credits
- Quantitative and Qualitative Methods, 10 credits
- Optional courses, 10 credits

**Semester 4**
- Degree work, 30 credits

CAREER

Technology and knowledge-intensive companies have a great need for well-trained people who understand technology and also business, management and innovation. In other words, there is a great need for people with a broad expertise in several areas of knowledge who want to lead and drive development and innovation forward. We therefore work determinedly to train you to successfully manage complex problems where technology, organisation, business, and markets, meet and interact.

Examples of industries and companies where our students can pursue careers:

- The automotive industry, for example, Scania, Volvo
- The energy/utilities industry, such as ABB
- Steel and mechanical engineering industries, such as Sandvik, Atlas Copco
- Major consulting firms such as Accenture, ÅF
- Telecom, for example Ericsson

Examples of possible work roles:

- Business Consultant
- Implementation Consultant
- Innovation Manager
- Product Developer
- Product Manager
- Project Manager/CEO
MASTER PROGRAMME IN INDUSTRIAL MANAGEMENT AND INNOVATION

120 credits
Autumn 2017 100% Campus

Location: Uppsala
Application Deadline: 2016-01-15
Enrolment Code: UU-M1453
Language of Instruction: English

Requirements:
Academic requirements
A Bachelor's degree, equivalent to a Swedish Kandidatexamen, from an internationally recognised university. The main field of study must be engineering or technology. Also required is 20 credits in mathematics.

Language requirements
All applicants need to verify English language proficiency. This is normally attested by an internationally recognised test such as TOEFL or IELTS with the following minimum scores:

- IELTS: an overall mark of 6.5 and no section below 5.5
- TOEFL: Paper-based: Score of 4.5 (scale 1–6) in written test and a total score of 575. Internet-based: Score of 20 (scale 0–30) in written test and a total score of 90
- Cambridge: CAE, CPE

Exemptions for students from certain countries.

Selection: Students are selected based on:

- a total appraisal of quantity and quality of previous university studies; and
- a statement of purpose (1 page).

Tuition fee paying students and non paying students are admitted on the same grounds but in different selection groups.

Fees: If you are not a citizen of a European Union (EU) or European Economic Area (EEA) country, or Switzerland, you are required to pay application and tuition fees. Read more about fees.

Application Fee: SEK 900
Tuition fee, first semester: SEK 72500
Tuition fee, total: SEK 290000

CONTACT & MORE INFO

Department of Engineering Sciences
Ångströmaboratories, Lagerhyddsvägen 1
Box 534, 751 21 UPPSALA
Fax: 018-471 3270

Nóra Masszi nora.masszi@angstrom.uu.se
Telephone: +46 18 471 30 80