YOU CREATE REALITY
SWEDEN – A SMALL COUNTRY THAT MAKES A DIFFERENCE
SWEDEN, AN INNOVATIVE COUNTRY

• Volvo
• Skype
• H&M
• Skanska
• Nordea
• Spotify
• Ericsson
• Saab
• TeliaSonera
• Metro
• Sandvik
• SSAB
• SKF
• Assa Abloy
• Autoliv
• Husqvarna
• Securitas
• Electrolux

SKÖVDE – A SMALL TOWN THAT MAKES A DIFFERENCE
MODERN UNIVERSITY WITH AN OPEN AND WELCOMING APPROACH

The Campus

University of Skövde

Gothia Science Park

Joint Research and Innovation environment
Students: around 7,400 (3,350 ft equivalents)
Staff: around 540
60 study programmes –
  • Bachelor, Master, PhD
  • Innovative and cross disciplinary!
200 single subject courses
About 100 courses given in English
120 exchange agreements with more than 40 countries
200 incoming international students
50 outgoing exchange students

Lars Niklasson
Vice-Chancellor
School of Informatics

**Degree subjects:**
- Informatics
- Media Arts, Aesthetics and Narration

**Other subjects:** Cognitive Science, Music

Our Game Incubator at Gothia Science Park is the world leading talent factory in the field of computer game development
School of Informatics

- Distributed Real-time Systems
- Information Systems
- Interaction Lab
- Skövde Artificial Intelligence Lab
- Media, Technology and Culture
- Software Systems Research Group

Top 7 in Sweden - Quality of education

(ERICSON, 2014)
Top 2 in Sweden – Computer Science

Research Vision

• **Demand driven research** that contributes to the development of business and society

• **Profiled research** in which we are nationally leading and internationally **competitive**

• The offered education programmes at basic, master and PhD levels are **within our research profiles**
RESEARCH

• Around 135 professors, associate and assistant professors available for research.
• Presently around 75 students are engaged in Ph.D. studies
• Five research specialisations:
  • Informatics
  • Virtual Engineering
  • Systems Biology
  • Enterprises for the Future
  • Health and Education

PhD in Information Technology

The PhD programme in Informatics covers a broad spectrum of information technology-related disciplines ranging from the study of media and organizational computing to the technical disciplines

**IPSI** - Industrial PhD School Informatics

The vision is to be able to award PhD degrees in all of the five research specialisations.
### INTERNATIONAL PROGRAMMES

#### Bachelor's Programmes
- Biomedicine 180 ECTS
- Bioscience - Molecular Biodesign 180 ECTS
- Virtual Ergonomics and Design 60 ECTS
- Virtual Ergonomics and Design 120 ECTS
- Bioscience Informatics
  - Bioinformatics 60 ECTS
  - Biomarkers in Molecular Medicine 120 ECTS
  - Cognitive Neuroscience: Mind and Brain 60 ECTS
  - Infection Biology 60 ECTS
  - Infection Biology 120 ECTS
  - Molecular Biotechnology 60 ECTS
  - Molecular Biotechnology 120 ECTS

#### Engineering and Technology
- Intelligent Automation 60 ECTS
- Intelligent Automation 120 ECTS
- Virtual Ergonomics and Design 60 ECTS
- Virtual Ergonomics and Design 120 ECTS
- Data Science 60 ECTS
- Data Science 120 ECTS
- Digital Narration - Game and Cultural Heritage 60 ECTS
- Research Master in Informatics 120 ECTS
- Serious Games 60 ECTS

#### International Programmes
- About 100 partner universities in 35 countries
- Scholarship programmes such as Erasmus+, Linnaeus-Palme, Erasmus-Mundus, MFS and Science without Borders
Virtual Engineering – industrial problem solving based on the usage and development of virtual solutions.

Three research groups:

- Production & Automation
- User-Centered Product Design
- Mechanics of Materials
PRODUCTION & AUTOMATION

- Simulation-based optimization
- IT-tools for the operators of the future
- Maintenance optimization
- Human-robot collaboration
- Decision-support system
- Product life-cycle management
- Virtual commissioning
- Continuous improvements

USER-CENTERED PRODUCT DESIGN

- VIRTUAL ERGONOMICS DESIGN
- INDUSTRIAL INFORMATION DESIGN
- HUMAN-ROBOT COLLABORATION
- SMART TEXTILES – INDUSTRIAL APPLICATIONS

Research about methods and tools for simulation of human-product interaction, to evaluate ergonomics and design ergonomic products and workplaces.

Research about work related information and development of methods for design of successful information system solutions in industry.

Research about human-robot collaboration, to create human friendly and productive workplaces.

Research about how smart textiles can be applied in industry to improve health, quality and productivity.
MECHANICS OF MATERIALS

Adhesive joints
Fracture of adhesive joints of strengthening components in airplane fuselage.

Composite material
Delamination of carbon fiber composite material.

Kink-band
Kink-band formation during compressive loading of carbon fiber reinforced epoxy.

ENGINEERING PROGRAMS

Undergraduate Engineering Programs
- Automation Engineering
- Production Engineering
- Mechanical Engineering
- Design Engineering
- Building Engineering
- General Engineering
- Production Technician
- Automation Technician

Graduate Engineering Programs
- Intelligent Automation 60 ECTS
- Intelligent Automation 120 ECTS
- Virtual Ergonomics and Design 60 ECTS
- Virtual Ergonomics and Design 120 ECTS
assar
INDUSTRIAL INNOVATION ARENA

The Volvo AB Preferred Research Partner within Virtual Manufacturing
• Interaction between business and research
• Business incubator
### Produktutvecklare 2019 internationella studenter

<table>
<thead>
<tr>
<th>Vecka</th>
<th>2nd year - AS20/SS21</th>
<th>3rd year - AS21/SS22</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Product Development and Design I</td>
<td>Swedish for Foreign Students / English/Preparatory Course/Product Development and Design</td>
</tr>
<tr>
<td></td>
<td>Mechanics: Statics</td>
<td>Design Methodology II: Ergonomics/Design Intervening and Evaluation</td>
</tr>
<tr>
<td></td>
<td>Linear Algebra/Vector Algebra</td>
<td>QAD III/ User-Centered Design</td>
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<tr>
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<td>Strength of Materials: Introduction</td>
<td>CAD III</td>
</tr>
<tr>
<td></td>
<td>Linear Algebra/Matrix Algebra</td>
<td>Sustain Development for Engineer III</td>
</tr>
<tr>
<td></td>
<td>Manufacturing Technology and Science of Materials</td>
<td>Sustain Development for Engineer III</td>
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</tbody>
</table>

#### Autumn semester

**Product Development and Design II**
- Swedish for Foreign Students / English/Preparatory Course
- Industrial Design I

**Manufacturing Technology**
- Industrial Design I

**Engineering Project II**
- Digital Visualization
- Design Methodology I

**Sustainability Development for Engineer II**
- Industrial Design II

#### Spring semester

**Final project in Industrial Product Development**
- Swedish for Foreign Students / English/Preparatory Course
- Digital Visualization

**Engineering Project II**
- Production and Logistics Simulation II

**Sustainability Development for Engineer II**
- Industrial Design II

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### Produktutvecklare 2019 internationella studenter

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<td></td>
<td>Industrial Control</td>
<td>Sustain Development for Engineer III</td>
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</table>

#### Autumn semester

**Linear Algebra: geometric transformation**
- Swedish for Foreign Students / English/Preparatory Course
- Production and Logistics Simulation

**Industrial Control**
- Swedish for Foreign Students / English/Preparatory Course
- Production and Logistics Simulation

**Engineering Project II**
- Digital Visualization
- Design Methodology I

**Sustainability Development for Engineer II**
- Industrial Design II

#### Spring semester

**Efficient workflows**
- Swedish for Foreign Students / English/Preparatory Course
- Digital Visualization

**Efficient workflows**
- Swedish for Foreign Students / English/Preparatory Course
- Digital Visualization

**Engineering Project II**
- Production and Logistics Simulation II

**Efficient workflows**
- Swedish for Foreign Students / English/Preparatory Course
- Digital Visualization

**Efficient workflows**
- Swedish for Foreign Students / English/Preparatory Course
- Digital Visualization
NEW 1-YEAR MASTER’S PROGRAMS - 2019

- Virtual Ergonomics
- Industrial Production Development
- Intelligente Machines

- Year 1
  - Engineering Innovation (68hp)
  - Research Methodology and Communication (6hp)
  - Degree Project Magister (38hp)

- Year 2
  - Industrial Engineering (30hp)
  - Systems Thinking (12hp)
  - Leadership and Organizational Development (12hp)

NEW 2-YEAR MASTER’S PROGRAMS - 2019

- Intelligent Automation
- Industrial Ergonomics and Design
- Industrial Management for Sustainability

- Year 1
  - Advanced Manufacturing (68hp)
  - Research Methodology and Communication (6hp)
  - Degree Project Magister (38hp)

- Year 2
  - Industrial Engineering (30hp)
  - Systems Thinking (12hp)
  - Leadership and Organizational Development (12hp)
Student Support

- Student Accommodation Service
- Pick-up service
- Introduction programme
- Student Union
- International Committee
- A buddy system

Student Support

- Student Affairs Office
- Student and Career Counselling
- Student Health (Social counselling)
- Support for students with disabilities
- IT-Helpdesk
- Library
- Study Support Centre
International Office

Staff
Sanna Larsson, Andrea Dião Jonsson, and Frida Lindgren

CONTACT

- International Office: international@his.se
- Student counsellors: studycounselling@his.se
- Admission: admission@his.se
- Accommodation: bostadsformedling@his.se
BENEFITS OF THE ERASMUS PROGRAM

Professional and personal enrichment
Meet people and learn new cultures
Improve languages

AN OPPORTUNITY

Possibility of enriching your engineering studies and even more:

- Possibility of getting a double engineering title if the requisites are accomplished.
- Possibility of studying a 1 year master degree after getting the bachelor degree.
- Personalized attention to the student.
- Direct relation with industry.
- Meet one of the most innovative countries in the world.
- Improve languages.

Take your chance!
TACK SÅ MCYKET!

Välkommen till Skövde!

www.his.se
www.studyinsweden.se
www.facebook.com/hogskolaniskovde

Enrique Ruiz Zúñiga – School of Engineering Science - Responsible for internationalization
Karlsruhe Institute of Technology – 14th November 2018