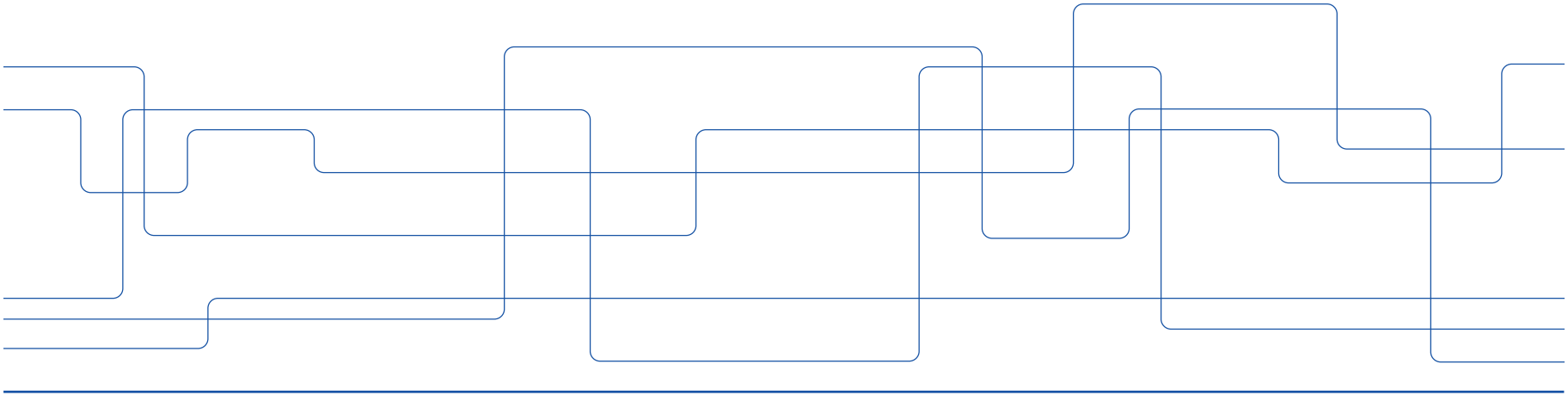
School of

Industrial Engineering and Management




DAS

KTH in figures

17
Master of Science in Engineering Programmes

9
Bachelor of Science in Engineering Programmes

155th
best university in the world

1,582
Doctoral students

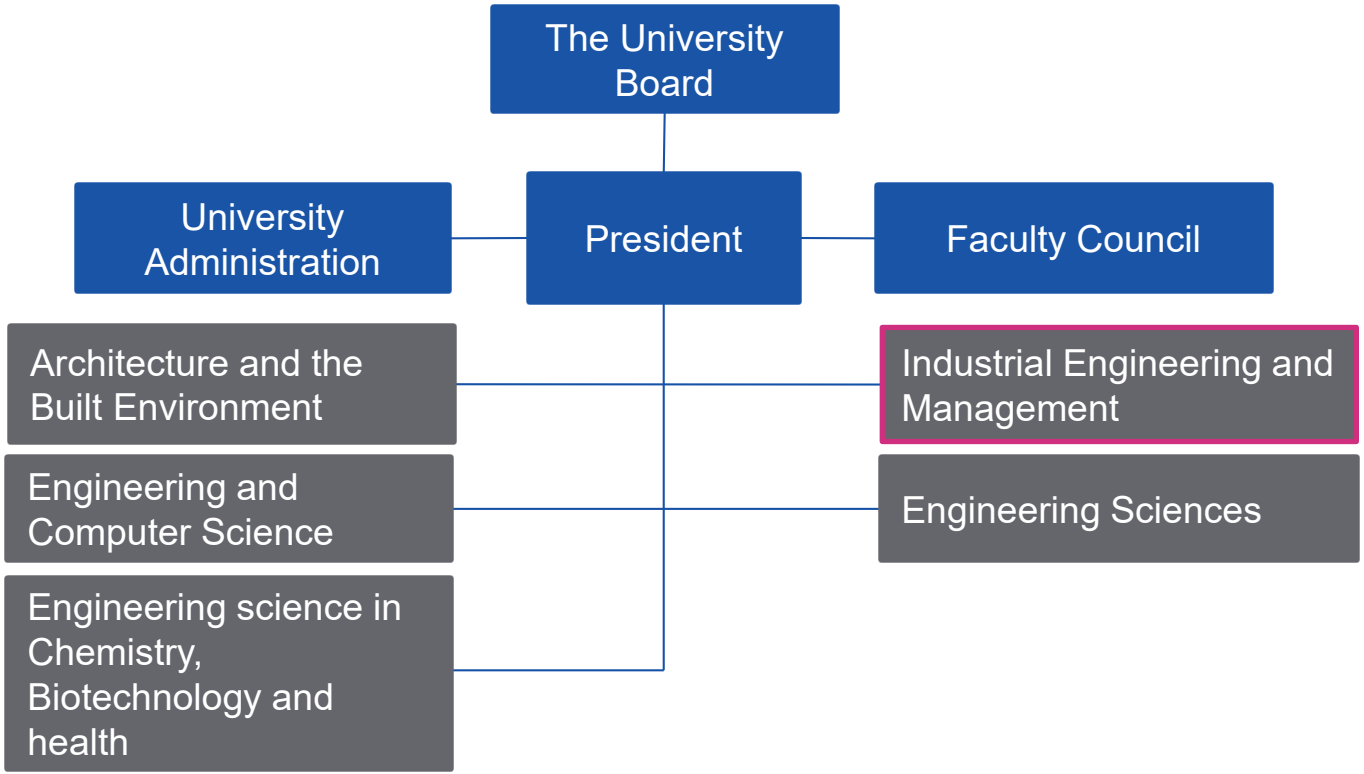
4,026
employees

42rd
best university in Europe

1,334
Degree of Master of Science in Engineering, yearly

13,583
full time equivalent students

KTH's organisation



The ITM Management team

FFA
Andrew Martin

JMLA

Martin Edin Grimheden

Deputy Head of School
Anna Jerbrant

Head of School
Pär Jönsson

Second Deputy Head of School
Mats Magnusson

Head of Departments and University Administration ITM

Industrial Economics and Management

Head of Dept.
Cali Nuur

Engineering Design

Head of Dept.
Martin Edin Grimheden

Material Science and Engineering

Head of Dept.
Joakim Odqvist

Learning

Head of Dept.
Arnold Pears

Energy Technology

Head of Dept.
Björn Laumert

Production Engineering

Head of Dept.
Magnus Wiktorsson

University Administration

Head of Admin.
Christina Carlsson

University Administration

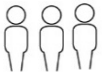
Deputy Head of Administration
Jenni Hollbrink

Core business ITM

Faculty

326 employees and affiliated

41 Professors, 14 Adjunct / Affiliated Professors, 62 Associate Professors, 10 Assistant Professors, 64 Lecturers, 19 Postdocs and 116 Researchers.

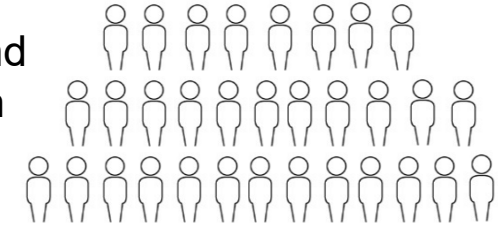


Third-cycle education

171 Doctoral Students

First and second cycle education

Approx 3200 students



Core business ITM

Faculty

Andrew Martin
Responsible for Future Faculty

Third-cycle education

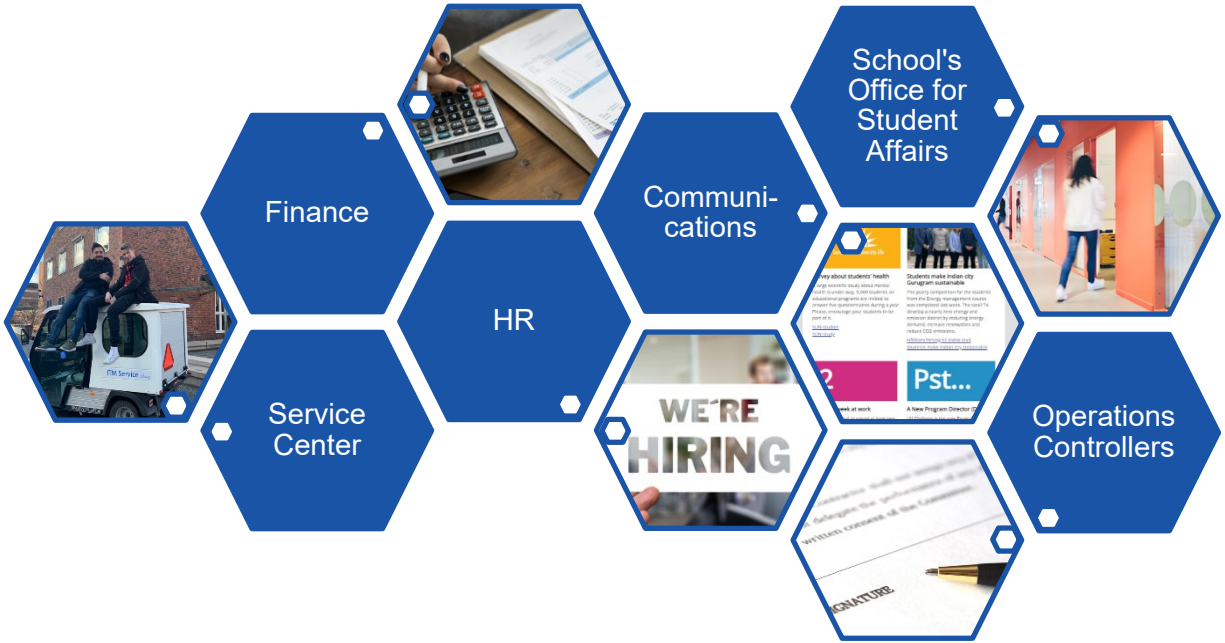
Mats Magnusson
Second Deputy Head of School and Director of Third-Cycle Education

First and second cycle education

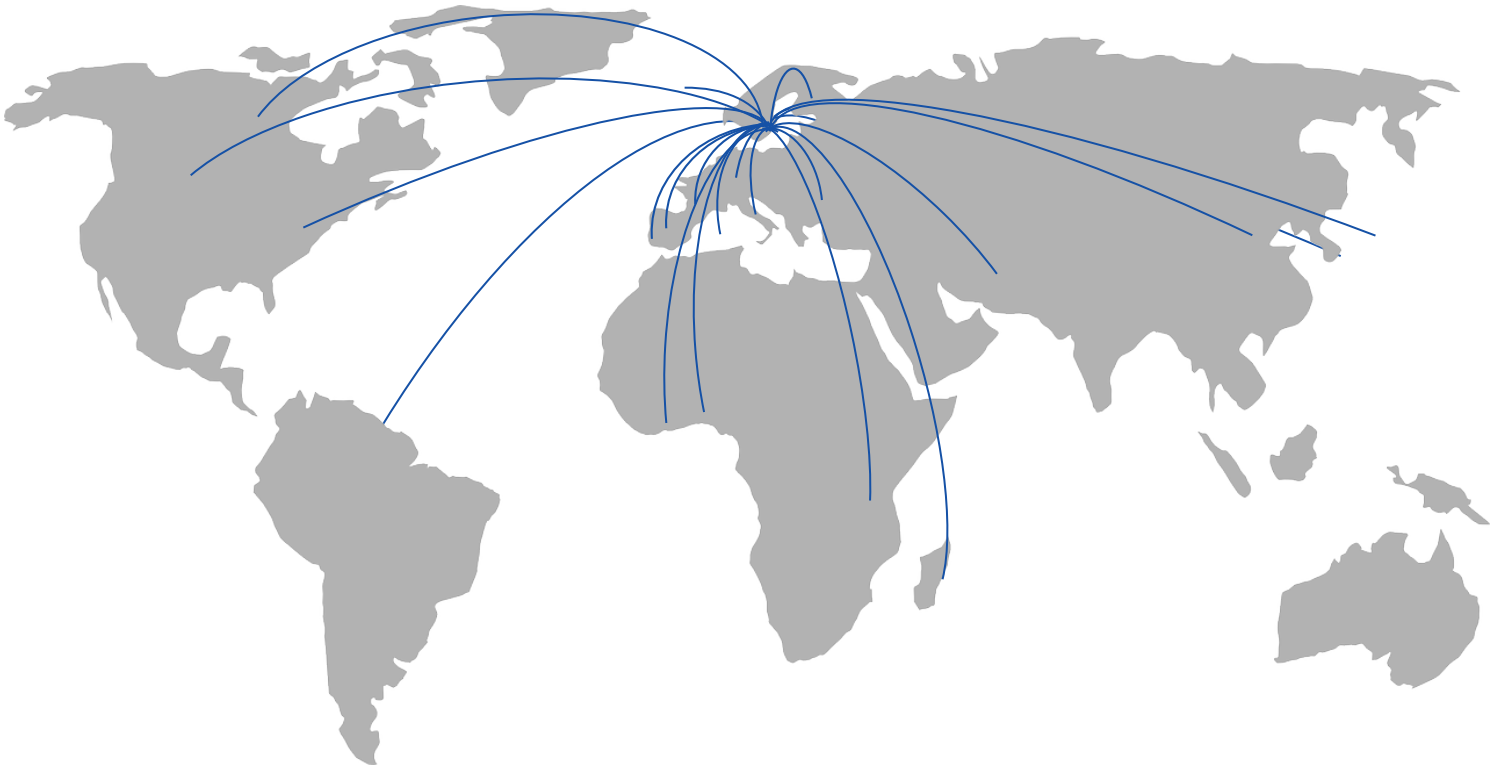
Anna Jerbrant
Deputy Head of School and Director of First and Second Cycle Education

Administration

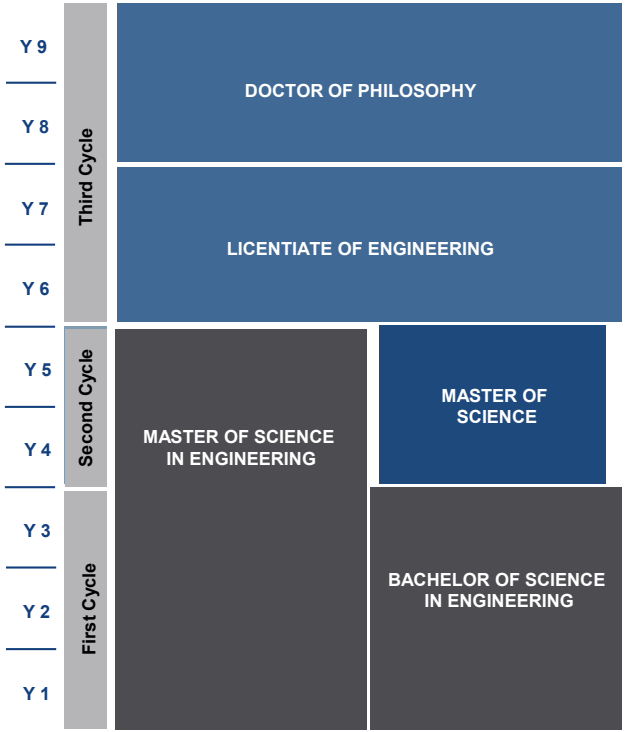
85 employees



Internationalisation



Studies


Y 9
Y 8
Y 7
Y 6
Y 5
Y 4
Y 3
Y 2
Y 1
Third Cycle
Second Cycle
First Cycle
DOCTOR OF PHILOSOPHY
LICENTIATE OF ENGINEERING
MASTER OF SCIENCE IN ENGINEERING
MASTER OF SCIENCE
BACHELOR OF SCIENCE IN ENGINEERING


Vilka indikatorer har vi på att förbättringar behövs?
Voice of customer (VOC)
Teknisk innovation
Konkurrentanalyser
Avvikelser från specifikation
Key performance indicators (KPI)
Trender i resultat/ processer/ produkter
Revisionsresultat
Tillbud/arbetsplatsolyckor
Identifierade risker
Nya idéer på markn

Programmes in first and second cycle

Master of Science in Engineering Programmes (300 credits)

- Engineering and Education
- Energy & Environment
- Industrial Engineering and Management
- Industrial Technology and Sustainability
- Materials Design and Engineering
- Mechanical Engineering
- Design and Product Realisation

Bachelor of Science in Engineering Programmes (180 credits)

- Industrial Technology and Production Maintenance
- Mechanical Engineering

Programmes in third cycle

Doctoral Programmes

- Energy and Environmental Systems
- Industrial Economics and Management
- Production Engineering
- Machine Design
- Engineering Materials Science
- Education and Communication Studies

Our campuses

KTH Campus

Most of the Master of Science in Engineering Programmes are located on KTH Campus as well as several common student support functions.

Address: Brinellvägen 8, 100 44 Stockholm,

KTH Södertälje

The programmes have close connection to the private sector, and the students have ongoing contact with companies like Scania and AstraZeneca.

Address: Kvarnbergagatan 12, 151 81 Södertälje,

Research areas

Energy Technology

The Department of Energy Technology aims at contributing to welfare and development through world class research and education in innovative energy technologies and systems, and promotion of the energy sector transition towards sustainability.

Industrial Economics and Management

Research in economics, business management and organization. Behind the profile of the department is a firm conviction that modern society has a need for expertise in advanced technical depth combined with strong insights into the economy and leadership.

Learning

The department has developed research into learning in order to take a holistic approach to research in learning at all levels, from pre-school to college. Current research areas are digital learning, global competence, engineering education in society, studies in higher education organization (HEOS) and the didactics of science and technology.

Engineering Design

Product development is the overarching theme of research at the department. The inter-disciplinary research activities can be summarized in the study of the development process, techniques and design principles as well as those related to physical phenomena.

Production Engineering

The research aims to create sustainable industries and covers all technologies which mainly applies engineering technical development of products and methods that have direct impact on this production. The area includes all aspects from design to production to assembly of parts into functional products as well recycling issues.

Materials Science and Engineering

The research is conducted on metallic and ceramic materials covering the whole chain Processes – Structures – Properties. The activities include experimental work as well as modeling on different length scales.

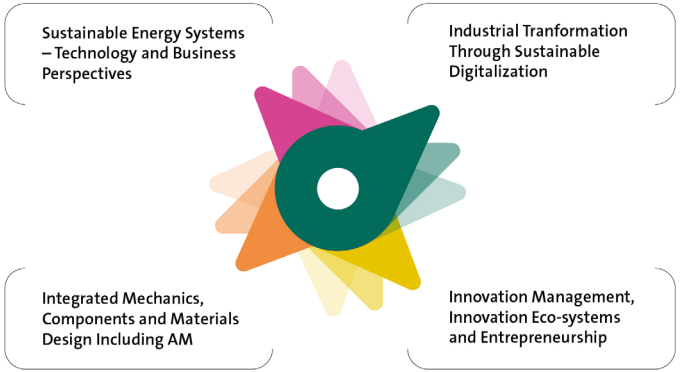
More about research on kth.se/itm/forskning

Research Initiative on Sustainable Industry and Society (IRIS)

IRIS is an overall school initiative that started in 2019 with the aim of contributing to increased sustainability in industry and society.

The goal of IRIS is to create strong research environments at the ITM school, and to stimulate new collaborations within and outside the school. IRIS represents a unique opportunity to establish the school at the forefront in research on sustainable industry and society.

Areas of activity



More about IRIS on kth.se/en/itm

Co-operation

Co-operation - Competence centres

Center for X-rays in Swedish materials science (CeXS)

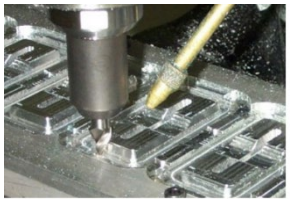
CeXS is engaging material science researchers in the opportunities of using high-energy x-rays, and aim to strengthen international collaborations in the field.

Director: **Peter Hedström**

Climate Action Centre

KTH Climate Action Centre is a multidisciplinary research centre where we work together to speed up climate action in synergy with the UN Sustainable Development Goals.

Director: **Francesco Fuso-Nerini**



Design & Management of Manufacturing Systems (DMMS)

DMMS is a center of excellence in the field product development with a focus on production. In close collaboration with its partners Scania, Sandvik, Swerea IVF and Chalmers MCR, they spread competence within areas like advanced component manufacturing, methodology and digital production support.

Director: **Andreas Archenti**

KTH:s centrum i inbyggda system (ICES)

ICES involves members from several KTH schools working closely with a wide range of industrial partners. The aim is to tackle the issues faced by those researching and working in the increasingly complex field of embedded systems today.

Director: **Martin Törngren**

Integrated Transport Research Lab (ITRL)

ITRL is a multidisciplinary and multi-stakeholder arena. Our mission is to explore sustainable mobility solutions that greatly reduce CO2 emissions and are economically viable and socially accepted.

Director: **Jonas Mårtnesson**

KTH Live-In Lab

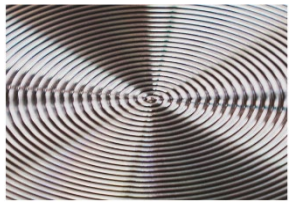
The KTH Live-In Lab platform of multiple testbeds can handle many different potential products and services, both separately and combined in a real system.

Director: **Jonas Anund Vogel**

Lean Center

Competence center with a focus on management and systematic improvement of work processes and organizations. Lean Center is a link between research, business and the public sector, and offers education, seminars and qualified coaching.

Director: **Johanna Strömgren**



Center for Mechanics and Materials (MMD)

The Center brings together the two disciplines Mechanics and Materials Science in order to speed up the processes for producing better materials. The long-term goal is a renewed and strengthened education at the basic, advanced and research levels in the field.

Director: **Carl Dahlberg**

Trustworthy Edge Computing Systems and Applications (TECoSA)

TECoSA is a Vinnova center with 13 industrial partners. Its aim is to provide safe and secure edge computing technology. Edge computing is a new computer level located between the devices/embedded systems and the cloud, on the “edge of the cloud”.
Director: **Martin Törngren**

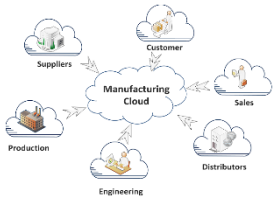
Co-operation

Other center like organisations

House of Science (Vetenskapens Hus)

Welcome to Stockholm and Vetenskapens Hus to explore modern science subjects including biology, chemistry, mathematics, physics as well as engineering.

Director: **Marcus Angelin**



Excellence in production research (XPRES)

XPRES is a platform for production research to meet the future challenges for the Swedish industry.

Director: **Antonio Maffei**

More about co-operations on kth.se/itm/samverkan