School of
Industrial Engineering and Management
KTH in figures

1,634
Doctoral students

17
Master of Science in Engineering Programmes

98th
best university in the world

3,895
employees

33rd
best university in Europe

1,119
Degree of Master of Science in Engineering, yearly

17
Bachelor of Science in Engineering Programmes

9

13,563
full time equivalent students
The ITM School's Organisation

Management Group

- Industrial Economics and Management: Cali Nuur
- Machine Design: Head of Dept Martin Edin Grimheden
- Production Engineering: Acting Head of Dept Antonio Maffei
- Materials Science and Engineering: Head of Dept Annika Borgenstam
- Learning: Head of Dept Arnold Pears
- Energy Technology: Head of Dept Björn Laumert
- Sustainable Production Development: Head of Dept Magnus Wiktorsson
- Administration: Head of Admin Christina Carlsson

Head of School:
- Pär Jönsson

Deputy Head of School:
- Anna Jerbrant
Core business ITM

Faculty
368 employees and affiliated
45 professorer, 21 adj. / affilierade professorer, 58 lektorer, 12 bitr lektorer, 59 adjunkter, 19 postdoktorer och 97 forskare.

Third-cycle education
326 Doctoral Students

First and second cycle education
3200 students
Core business ITM

Faculty

Natalia Skorodumova
Responsible for Future Faculty

Mats Magnusson
Director of Third-Cycle Education

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

Third-cycle education

First and second cycle education
Administration

100 employees
Internationalisation
Studies

- Bachelor of Science in Engineering
- Master of Science in Engineering
- Master of Science
- Master of Science
- Licentiate of Engineering
- Doctor of Philosophy

Y 1
Y 2
Y 3
Y 4
Y 5
Y 6
Y 7
Y 8
Y 9

First Cycle
Second Cycle
Third Cycle

- Bachelor of Science in Engineering
- Master of Science
- Master of Science
- Licentiate of Engineering
- Doctor of Philosophy
Programmes in first and second cycle

Master of Science in Engineering Programmes

• Master of Science in Engineering and Teaching
• Engineering Design
• Sustainable Energy Engineering
• Industrial Management
• Sustainable Production Development
• Engineering Materials Science
• Integrated Product Design
• Production Engineering and Management

Bachelor of Science in Engineering Programmes

• Bachelor of Science in Engineering and Teaching (270 hp)
• Industriell teknik och produktionsunderhåll (180 hp)
• Maskinteknik (180 hp)
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 Campus in Google Maps

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,
KTH Södertälje in Google Maps
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.

Sustainable Production Development
Our research aims to create sustainable industries. The research is mainly performed in close relationship with industry and is both applied and basic.

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 (HEGIS) and the didactics of science and technology.

Machine 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 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.

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.

More about research on kth.se/itm/forskning
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

- **Industrial Transformation through sustainable digitalization**
- **Integrated mechanics, components and materials design including additive manufacturing (AM)**
- **Sustainable Energy Systems – Technology and Business Perspectives**
- **Innovation management, innovation eco-systems and entrepreneurship**

More about IRIS on kth.se/en/itm
Co-operation
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

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

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

KTH:s Live-In Lab

Competence Center for Gas Exchange (CCGEx)
CCGEx focuses on research regarding gas management in modern internal combustion engines for vehicles. The aim is to make engines more effective and environmentally-friendly and decrease fuel consumption without losing performance.
Director: Mihai Mihăescu

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

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, Sweeno IPF and Chalmers MCR, they spread competence within areas like advanced component manufacturing, methodology and digital production support.
Director: Andreas Archenti

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

Powertrain Manufacturing for Heavy Vehicles Application Lab (PMH)
A research center run in collaboration with the German research organization Fraunhofer. Their mission is to improve the technology of powertrain production for heavy vehicles on high technology readiness levels, and spread the knowledge.
Director: Jannik Henser

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: Anna Perneståhl

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

Hero-m 2i
The research spans from materials that are industrially relevant today and have a potential for improvement as well as materials that are expected to become important in the near future.
Director: Annika Borgenstam

Center for Mechanics and Materials science (CeXS)
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: Cecilia Kozma

Prototype Center
KTH Prototype Center is the best and easiest way to test out your idea. Our goal is to make the jump from idea to realized prototype as short as possible and to help businesses get going quickly.
Director: Björn Möller

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