



KTH Royal Institute of Technology



Master's and PhD studies

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KTH web site



Facts about KTH



Study at KTH



KTH Royal Institute of Technology

One of the top technical universities in Europe





Short facts about KTH

- Established 1827 in Stockholm, Sweden
 - People from more than one hundred nations
 - Some numbers:
 - 14,000 full time students
 - 1,500 PhD students (with at least 50% activity)
 - 2,900 new students in master programs (in 2024)
 - 300 new PhD students each year
 - 600 members of faculty
 - QS ranking in 2025 is 78, Times Higher Education 95
 - Highest QS subject rankings is 25 for Mechanical Engineering, and many other subject rankings are better than 100
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Engineering and Science rankings

Comparison of QS rankings by subject 2025		
	KTH	NCKU
General ranking	78	203
Mechanical Engineering	25	151-200
Materials Science	29	201-250
Electrical and Electronic Engineering	33	141
Architecture & Built Environment	42	101-150
Civil and Structural Engineering	43	101-150
Physics and Astronomy	54	201-250
Chemical Engineering	60	101-150
Computer Science and Information Systems	69	201-250
Mathematics	70	151-200
Chemistry	80	201-250
Data Science and Artificial Intelligence	51-100	-
Yellow shading: higher rank than KTH		
Red shading: lower rank than KTH		

The Kingdom of Sweden

- About 10 million inhabitants, ~2 million of whom live in the capital of Stockholm
- Has a pleasant climate thanks to the warm Gulf stream in the north Atlantic sea
- Combines a beautiful natural setting with modern technology and vibrant cities
- Home of the Nobel Prize, and many famous export companies, such as the examples on the next slide:



Sweden makes a lasting impression

Swedish entrepreneurship and ingenuity has helped shape the worlds of communication, furniture, fashion, music and much more. And no matter what the industry, there always seems to be that engineering approach.





ROYAL INSTITUTE
OF TECHNOLOGY

Stockholm – a city of islands



Stockholm: a dynamic environment, modern, historic, clean air and water





Stockholm: an international city

- A multi-cultural European capital, communities from China, India and other countries
 - A city with very clean air and water
 - Quick access to city, campus and nature with excellent transportation: public, by bicycle or even by boat
 - **Swedes speak good English**, very limited need to learn Swedish while studying in Stockholm
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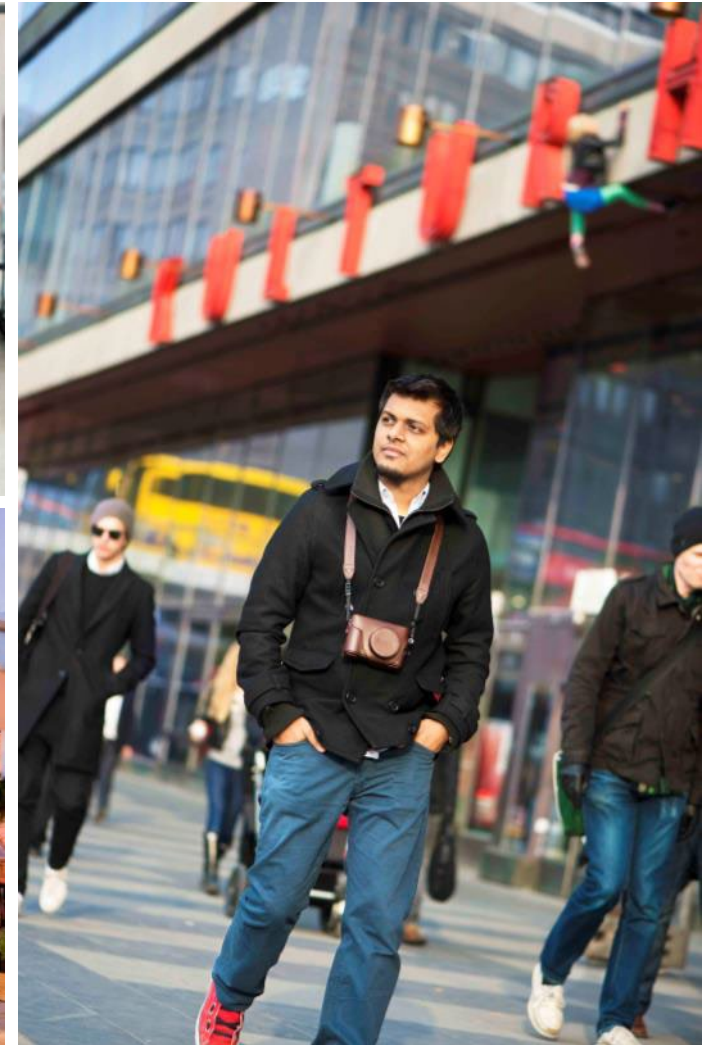








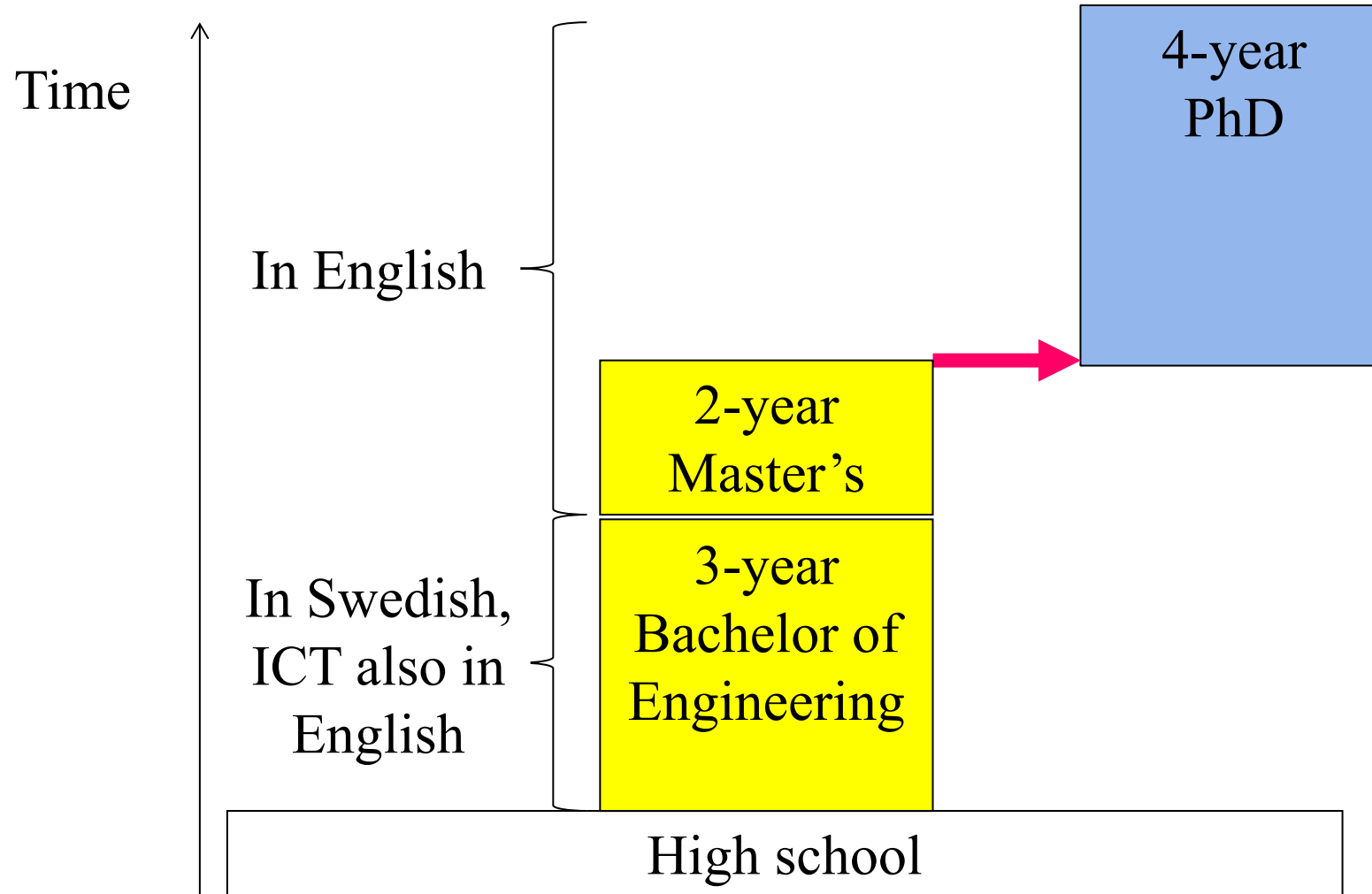
Stockholm student life, part of the city



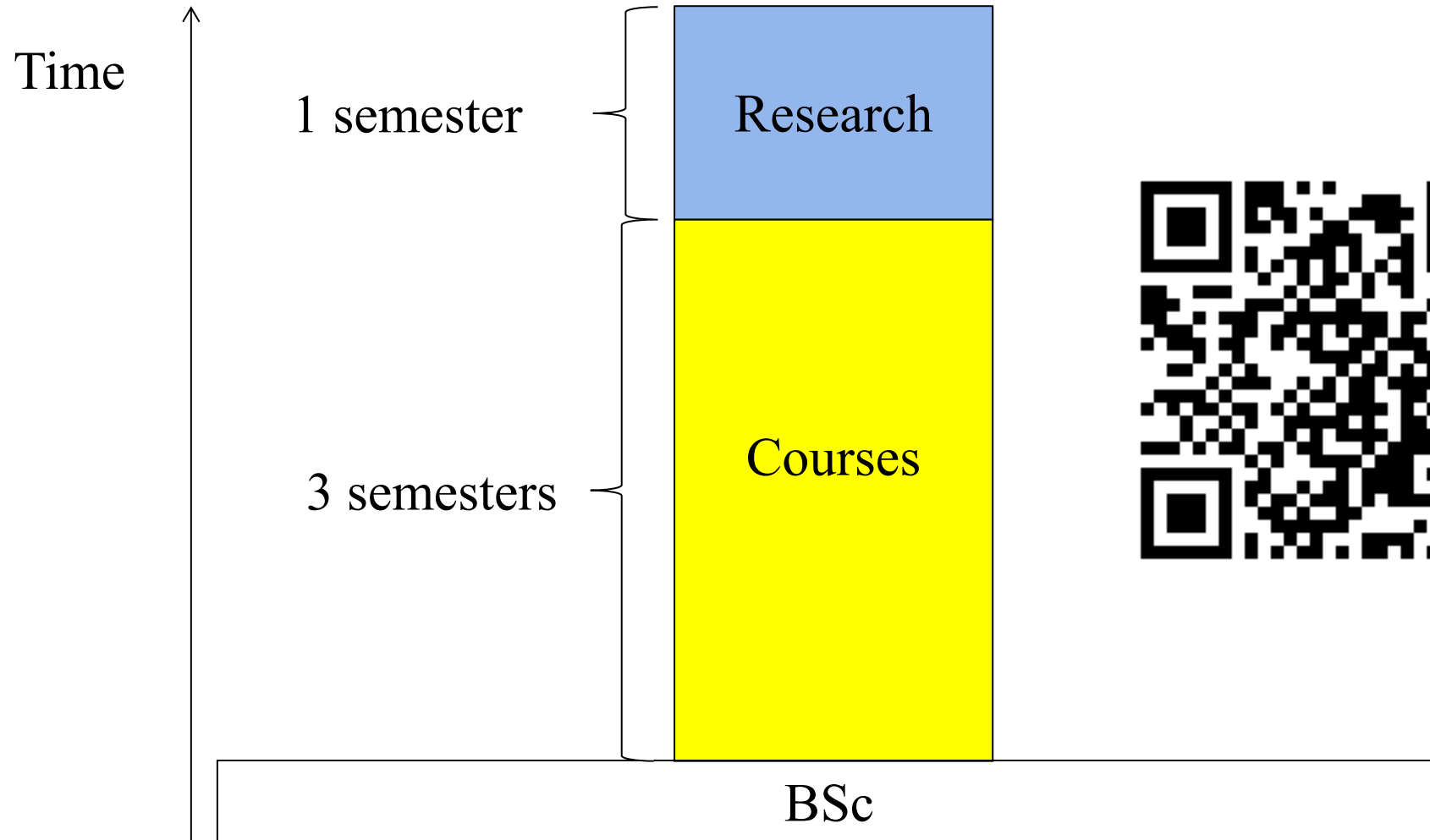
KTH main campus



Structure of education at KTH



Structure of MSc education at KTH





MSc programmes for entry in 2026

More than 60 programmes in several subject areas:

- Architecture and the Built Environment
- Computer Science
- Electrical Engineering
- Engineering Physics and Mathematics
- Energy and Sustainable Development
- Industrial Management and Innovation
- Information and Communication Technology
- Life Science Technology, Chemistry and Chemical Engineering
- Materials Science and Engineering
- Mechanical Engineering



Fees and Scholarships

There are application and tuition fees for non-EU/EEA/Swiss citizens for 1st and 2nd cycle studies (bachelor and master)

The tuition fee is SEK180k (about USD19k*) for one year of full-time master's study, architecture 70% higher and bachelor 20% lower

Scholarships are available, for example:

- KTH Scholarship (covering the tuition fee)
- Joint programs: EIT (European Institute of Innovation and Technology)

* Assuming exchange rate USD 1.0 = SEK 9.3

Living in Sweden

When applying for a residence permit, you must prove to the Swedish Migration Board that you will have a guaranteed sum of money at your disposal throughout the entire period of your studies. The amount is SEK 10584*, about USD 1140**, per month for ten months of the year.

Student budget examples



Breakdown of budget per month, approximately:

- Food: USD 290
- Accommodation: USD 510 (for 19 m²)
- Local travel: USD 70
- Phone/internet: USD 50
- Other: USD 220

* This sum was valid on 1 January 2025, subject to changes

** Assuming exchange rate USD 1.0 = SEK 9.3



Application requirements and process

- Completed Bachelor's degree is required except for 3+2 applicants, see following slides for terms
 - English proficiency has to be shown (TOEFL 90 with writing 20, IELTS 6.5 with no subscore below 5.5 etc)
 - There are programme-specific requirements (see www.kth.se/en/studies/master)
 - Apply at www.universityadmissions.se
 - Online application period: October 16 to January 15, supporting document deadline 2 February
 - Results of admission distributed March 26, 2026
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Application for KTH scholarship

- Applications for KTH scholarships are open from 1 December 2025, to 15 January 2026
- Applications are entered via the KTH web page:
 - Go to master studies: www.kth.se/en/studies/master/
 - Select "Scholarships" in the left menu and then "KTH scholarship"
- Scholarship opportunities:



KTH Scholarship:





Application for KTH scholarship

An assessment of applicants for the scholarship is made based on the following criteria:

- The applicant's grades (GPA or equivalent)
 - The ranking of the university where the applicant studied at bachelor level
 - The applicant's extracurricular research experiences or publications, relevant work experience, relevant teaching experience, awards from competitions and extracurricular activities.
 - The applicant's motivation how they will contribute to the sustainable development goals with a master's degree from KTH
-

Application for KTH scholarship

- Sustainable development goals



Application for KTH scholarship

- The motivation on sustainable development should at least show that the applicant has read the information on sustainability found in each master program description on the KTH web site. Example from a program: (scroll down to “Sustainable development”):



- Do NOT copy&paste from anything on the web! The motivation will be checked for plagiarism.
-

Compliance with entry requirements

Include a table of this type in your application, including what courses you will take during the spring before leaving for KTH, example for KTH master program in Engineering Physics:

KTH master program prerequisites, see "Entry requirements"	Corresponding bachelor level courses at your home university
Physics (including classical mechanics, thermodynamics, electromagnetism, waves, geometrical optics and quantum mechanics) equivalent to at least 45 ECTS	List courses and briefly describe contents
Mathematics (including differential and integral calculus, linear algebra, differential equations and transforms, and statistics) equivalent to at least 35 ECTS	List courses and briefly describe contents

60 ECTS credits is one full academic year of studies. At bachelor level, the credits from a Chinese university can usually be multiplied by 1,5 to get the corresponding number of ECTS credits, i.e. 1 credit at a Chinese university corresponds to approximately 1,5 ECTS credits

ECTS= European Credit Transfer System

Compliance with entry requirements

Example of a table to be included when applying for KTH Computer Science:

KTH master program prerequisites, see "Entry requirements"	Corresponding bachelor level courses at your home university
Mathematics equivalent to at least 28,5 ECTS, there must be: <ol style="list-style-type: none"> 1. a course in one-variable calculus, 2. a course in linear algebra and 3. a course in probability theory and statistics 4. a course in discrete structures 	List courses and briefly describe contents: <ol style="list-style-type: none"> 1. ... 2. ... 3. ... 4. ...
Computer Science/Information Technology equivalent to at least 22,5 ECTS, there must be <ol style="list-style-type: none"> 1. a course in object-oriented programming, 2. a course in algorithms and data structures 3. a course in computational complexity 	List courses and briefly describe contents: <ol style="list-style-type: none"> 1. ... 2. ... 3. ...
Multivariable analysis is a special eligibility requirement for compulsory courses within the tracks Data analysis and Cognitive systems.	State course(s) and brief description
Human-computer interaction is a special entry requirement for compulsory courses within the Interaction Design track	State course(s) and brief description

60 ECTS credits is one full academic year of studies.
ECTS= European Credit Transfer System

Acceptance rates

All numbers are available on the KTH website

Average acceptance rate for all master programs in 2025: 29%

Most popular master programs 2025 (~10% or less)

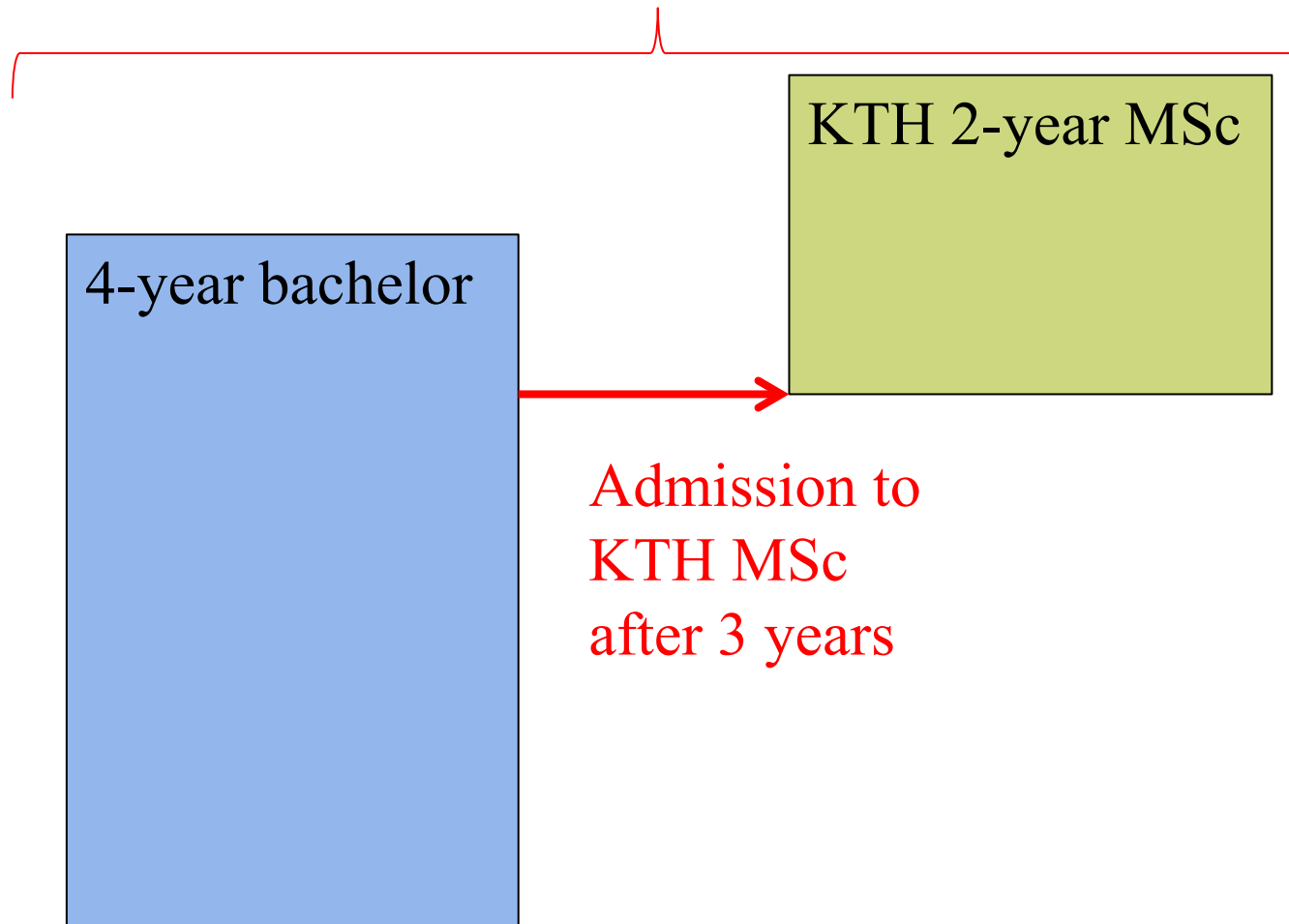
- ICT Innovation: 5-11% depending on track
- Computer Science: 10%
- Systems, Control and Robotics: 9%
- Cybersecurity: 8%
- Applied and Computational Mathematics: 8%
- Machine Learning: 7%

Easier programs to be admitted to ($\geq 50\%$)

- Technology, Work and Health: 75%
- Chemical Engineering for Energy and Environment: 73%
- Macromolecular Materials: 62%
- Nanotechnology: 61%
- Innovative Technology for Healthy Living: 60%
- Molecular Science and Engineering: 57%
- Sports Technology: 57%
- Industrial and Environmental Biotechnology: 55%

3+2 program

KTH MSc in 5 years from start of bachelor studies





3+2 agreement

KTH and NCKU have a 3+2 agreement since 2023

Students can apply during the 3rd year of 4-year bachelor studies. These applicants must contact their home university administration

Applicants **should very carefully check the entry requirements** for each master program to which they apply.

Joint programs and programs at other Swedish universities are **NOT included in 3+2.**

Applications are made at universityadmissions.se as for all applications, deadline January 15, 2026



Comments on 3+2 applications

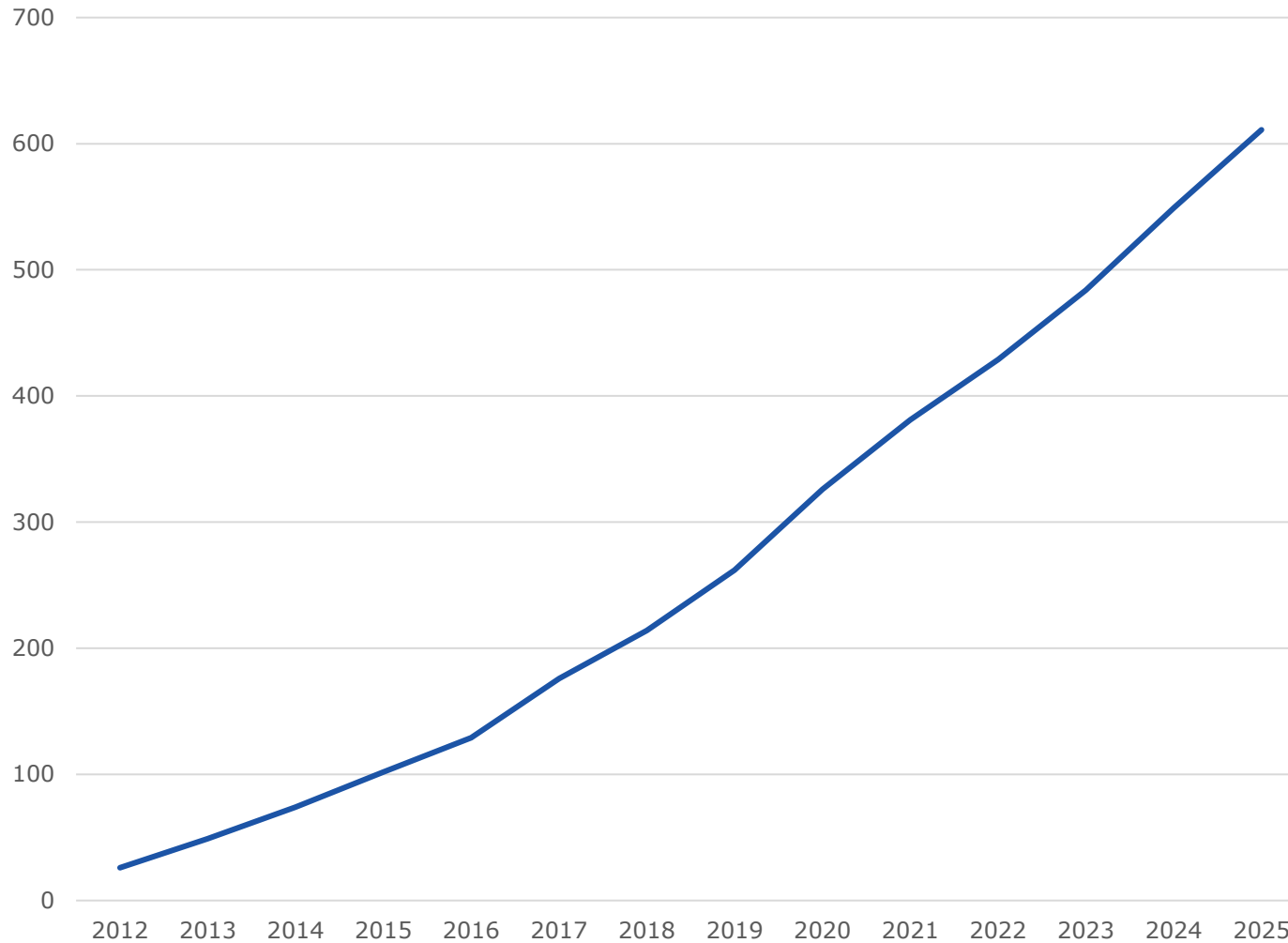
Most 3+2 applicants will see the status “unqualified” in universityadmissions.se during the admissions process: **Ignore this!** It usually only means that your transcripts indicate that you will not have a bachelor degree before entering KTH. If your name is on the list KTH has received from your bachelor university, KTH will mark your 3+2 application so that it is processed anyway.

Instead check carefully that you have uploaded all documents that are compulsory for each master program for which you are applying **before February 2.**

Do not wait until the last day to start uploading documents! Something may go wrong and then your application is considered **LATE** and is only evaluated if there is time left at the end of the evaluations. That is unusual since each master program may receive more than 1000 applications.



Accumulated KTH 3+2 master students from China and India



Registered students, in total 611 until 2025

Languages: English or Swedish?

- **Good knowledge of English is fundamental** for successful education at KTH
 - Sweden has a local language but there is **very limited need to learn Swedish** when studying since people in Sweden speak good English
 - All KTH students who do not have Swedish as their first language are invited to an introductory course in Swedish language and culture. The course is free of charge for all students
 - **Good advice: focus on English in the beginning!**
-



Career prospects after a KTH degree

- Statistics for master's programmes:
 - 50% had a job even before graduation
 - >90% had a job within 6 months of graduation
 - >30% became PhD students

PhD studies



- Three years of full-time research, one year of courses
- Engages around 2,000 people
- A large proportion international PhD students
- A candidate has to apply for a position
- All PhD student positions are announced on the KTH web site:
<https://www.kth.se/en/studies/phd>
- Employment with a salary if admitted, but competition for positions

Create Your Future : Start from KTH



Lee-Lun Lai

PhD Student in Nanophotonics, KTH

Division of Micro and Nanosystems, School of
Electrical Engineering & Computer Science

- BSc, Department of Photonics, National Cheng Kung University, 2015-2019
 - MSc student in Engineering Physics, KTH Royal Institute of Technology, The School of Engineering Sciences, 2019-2021
 - Research Intern in microsystem technology at the MST Lab, KTH, EECS, 2020-2021
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Things you can do after finishing education at KTH...



ChihCheng (Ted) Yang
Traffic planner, SJ AB, 2016-now
Subway driver, TRTC, 2013-2015

- MSc in Transport and Geoinformation Technology, 2018 KTH, Stockholm
- B.B.A in Transportation Technology and Management, 2013 National Chiao Tung University, Hsinchu

Things you can do after finishing education at KTH...



Justin Chiu, Dr.
Consultant at the company EPS AB
Manager, KIC Innoenergy
Associate Professor, KTH

- Postdoctoral researcher at Graduate Institute of Environmental Engineering
National Taiwan University, Taiwan, 2014
- PhD in Energy Storage
KTH, Sweden, 2013
- MSc in Engineering/ Dipl. Ing.
National Institute of Applied Sciences, France, 2007

KTH faculty member from Taiwan



Yves Hsieh, PhD
Associate Professor, KTH
Division of Glycoscience, School of Biotechnology
Wallenberg Wood Science Center, School of Chemical
Science and Engineering
+ Faculty member of Taipei Medical University

- ARC Postdoctoral Research Fellow
University of Adelaide, Australia, 2014-2015
 - PhD, School of Chemistry, University of Sydney,
Australia, 2009-2013
 - Research Assistant, Genomic Research Center,
Academia Sinica, Taiwan, 2006-2009
-

Things you can do after finishing education at KTH... **go into space!**



Professor Christer Fuglesang Professor in Space Physics, KTH

- Mission crew STS-116 & STS-128 Shuttle Discovery, NASA-ESA 2006 & 2009
- Astronaut at European Space Agency 1992-present
- PhD in Experimental Particle Physics Stockholm University, 1986
- Master in Engineering Physics KTH, 1981

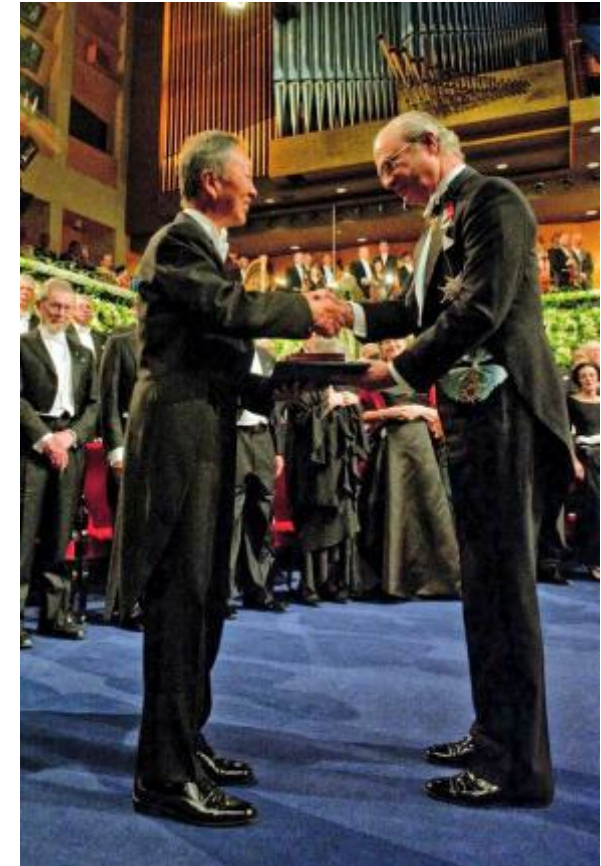
Things you can do after research at KTH... **collect the Nobel prize!**

Professor Hannes Alfvén

- Nobel Prize in Physics, 1970 for Magnetohydrodynamics
- Professor in Electrical Engineering University of California, 1967-1991
- Professor in Electromagnetic Theory and Electrical Measurements KTH, 1940-1991
- PhD in Electromagnetic Waves Uppsala University, 1934



Nobel Prize ceremony in Stockholm on December 10 every year



... may take a few years after graduation...

The Nobel Banquett



International students from KTH attended the Nobel Banquett in, the Stockholm City Hall, dressed in traditional costumes.



Welcome to KTH: launch your career!



Videos about KTH

Virtual campus tour

<https://www.kth.se/en/studies/explore-kth/virtual-campus-tour-1.925294>

