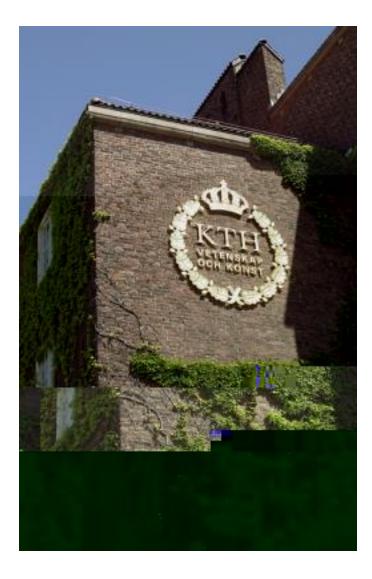


KTH Royal Institute of Technology

ROYAL INSTITUTE OF TECHNOLOGY



Information about master studies at KTH:





KTH Royal Institute of Technology



Introduction presented by:

Urban Westergren, professor School of Engineering Sciences

Director China Relations



KTH web site





Study at KTH

Facts about 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:
 - 13,000 full time students
 - 1,800 PhD students
 - 2,500 new students in master programs
 - 300 new PhD students each year
 - 600 members of faculty



Short facts about KTH

- QS ranking: Global World ranking 98 (2020) but many engineering areas are much stronger:
 - Electrical Engineering: 19
 - Architecture / Built Environment: 23
 - Mechanical Engineering: 26
 - Materials Science: 26
 - Statistics & Operational Research: 39
 - Computer Science & Info Systems: 41
 - Civil & Structural Engineering: 43
 - Mathematics: 44
 - Chemical Engineering: 51-100
 - Physics & Astronomy: 51-100



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
 - Do you know which?





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.





Wower and the second seco

Stockholm – a city of islands





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



Stockholm: an international city

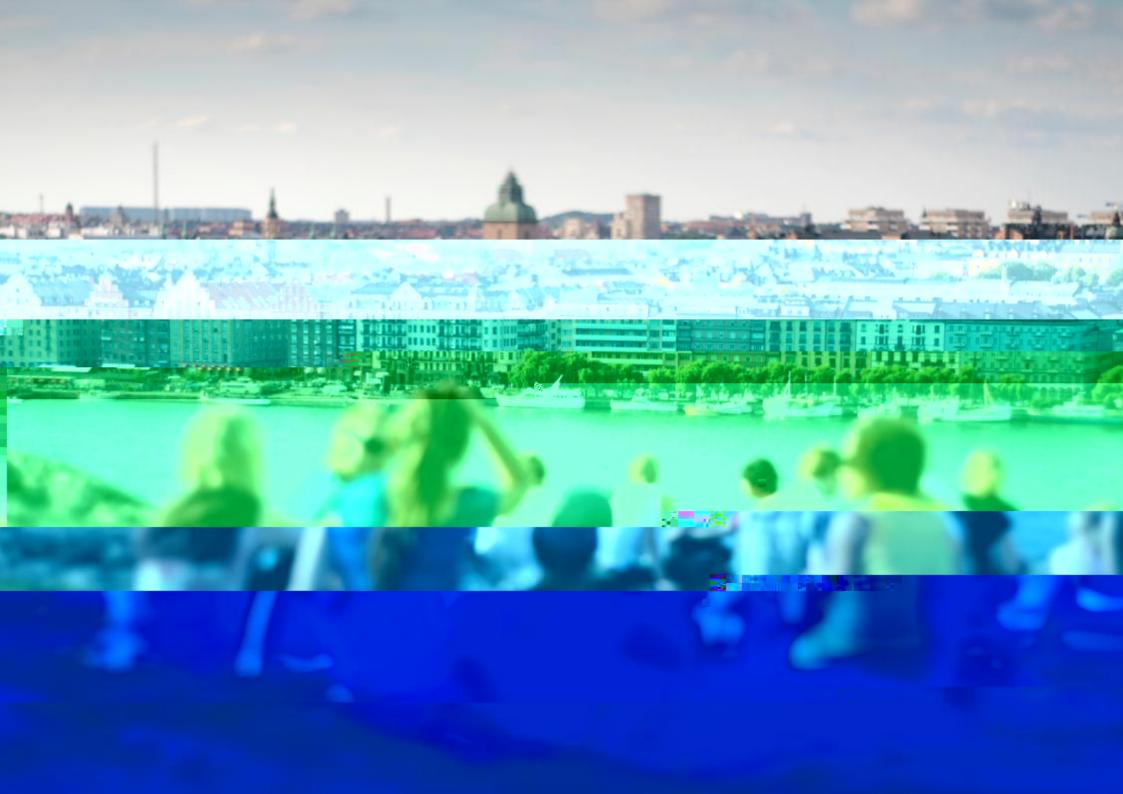
- A multi-cultural European capital, communities from China, India and other countries
- A clean and safe city
- Quick access to city, campus and nature with excellent transportation: public, by bicycle or even by boat
- Swedes speak good English, very limited need to learn Swedish while studying in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



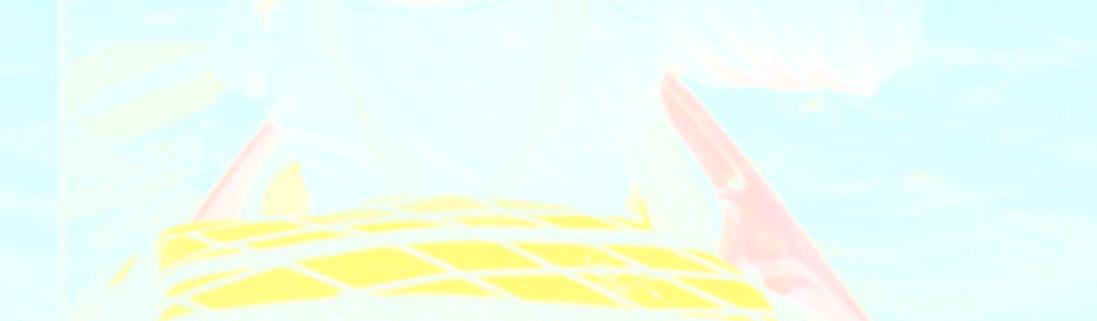














Stockholm student life, part of the city

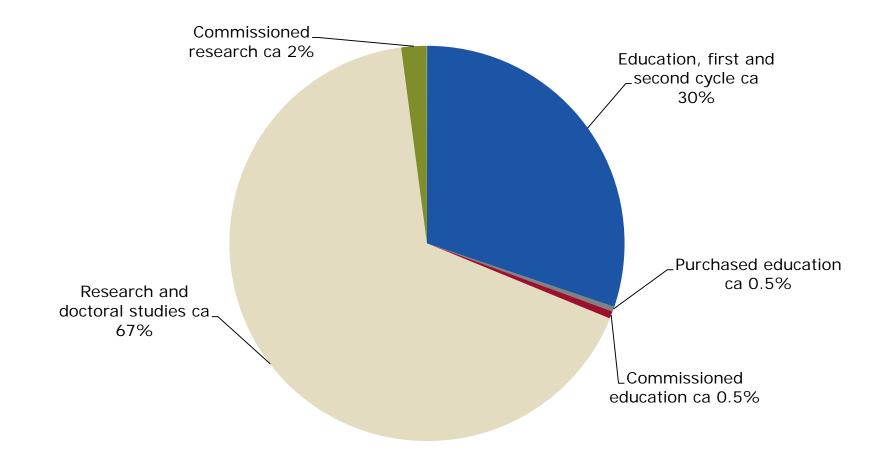
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KTH - Research-based operations

ROYAL INSTITUTE OF TECHNOLOGY • Total Revenue SEK 4,9 billion (ca RMB 3,8 billion)*

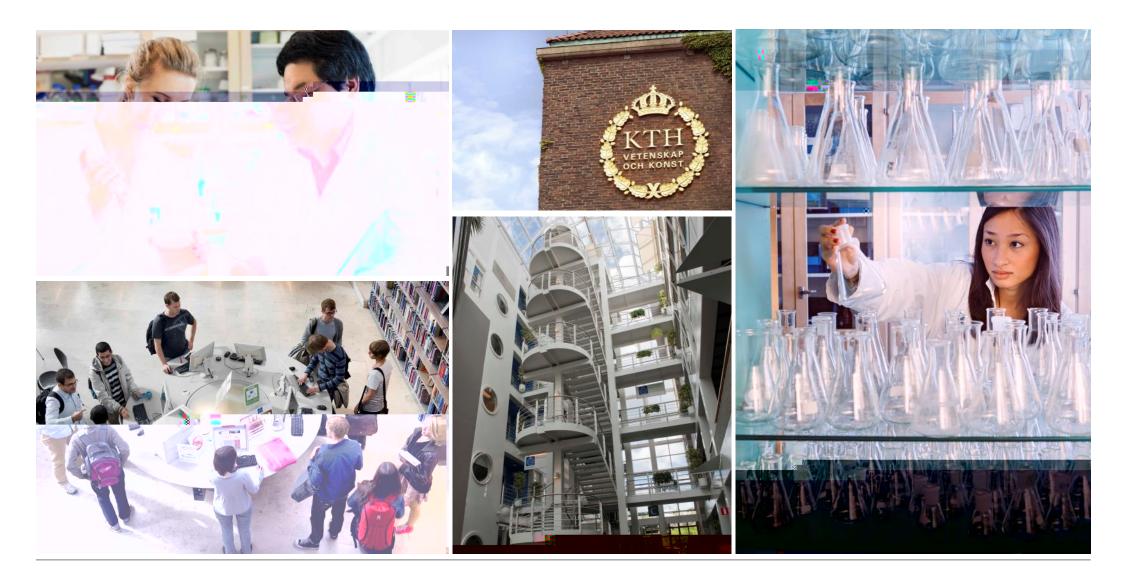


• Figure for 2016, exchange rate 1RMB = 1.3 SEK



Five campuses close to industry

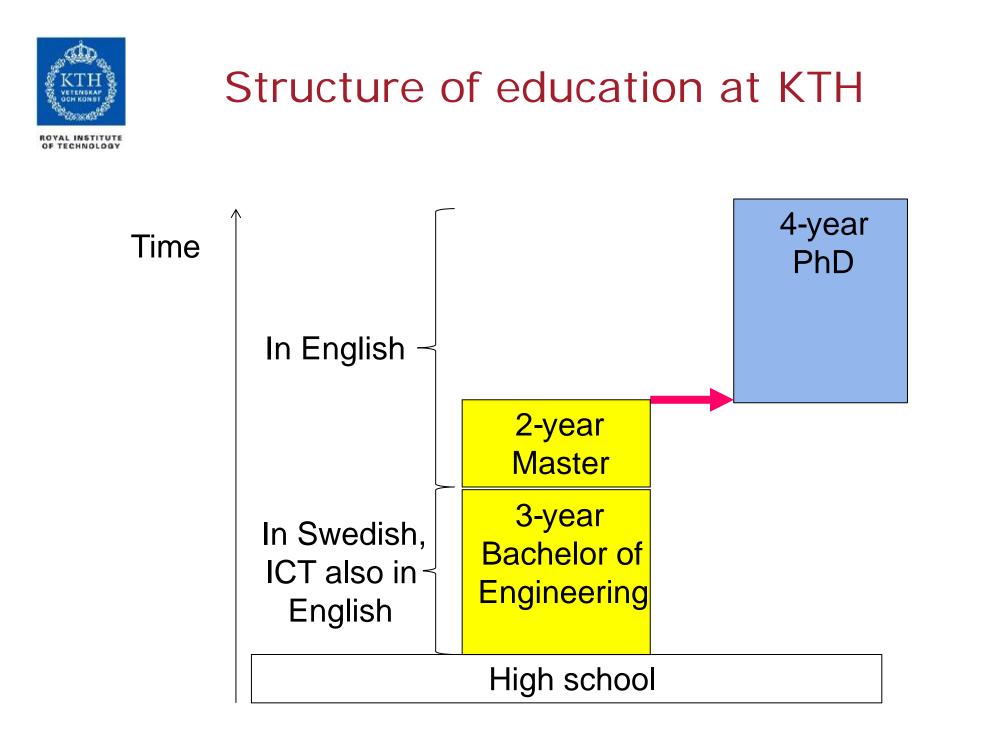
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Education in close collaboration with industry

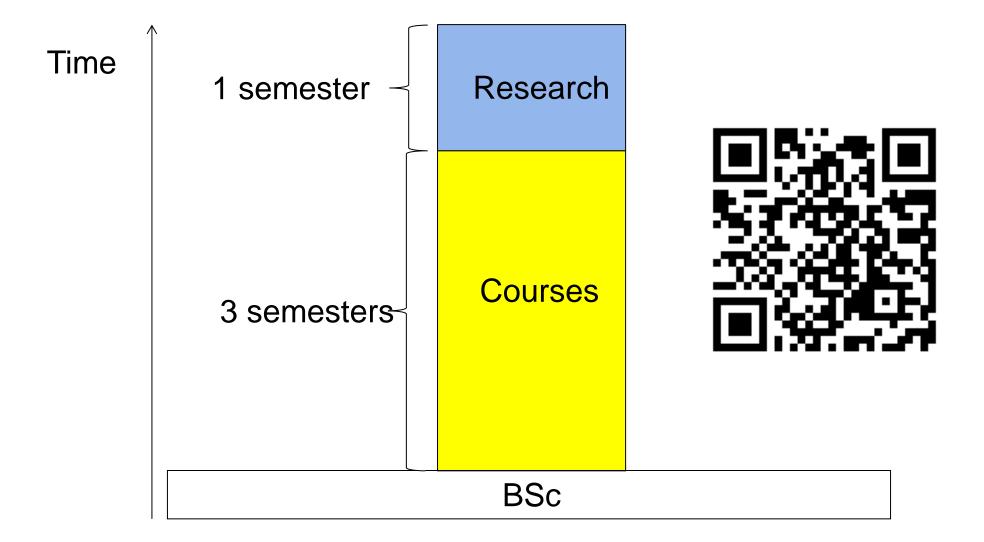
- KTH has five campuses in and around Stockholm city
- Each campus closely integrated with local industry
- Campus in Kista is surrounded by the worlds largest collection of ICT businesses, more than 1000 companies, such as Ericsson, IBM, Intel, Sun, Compaq, Huawei, ZTE, and many more
- Final thesis can be written at a company, often leading to the first job after graduation





Structure of MSc education at KTH

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MSc programmes for entry in 2020

9 subject areas, >60 programmes:

- Architecture and Civil Engineering, 9 programmes
- Electrical Engineering, 10 programmes
- Engineering Physics and Mathematics, 6 programmes
- Energy and Sustainable Development, 10 programmes
- Industrial Management and Innovation, 3 programmes
- Information and Communication Technology, 9 programmes
- Life Science Technology, Chemistry and Chemical Engineering, 7 programmes
- Materials Science and Engineering, 3 programmes
- Mechanical Engineering, 10 programmes



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 SEK155k (about RMB120k*, 12 KG) for one year of full -time master study, architecture 70% higher and bachelor 20% lower

Scholarships are available, for example:

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

* Assuming exchange rate RMB 1.0 = SEK 1.3



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 8190, about RMB 6200*, per month for ten months of the year.

Minimum budget per month:

- Food: RMB 1600
- Accommodation: RMB 2900
- Local travel: RMB 450
- Phone/internet: RMB 250
- Other: RMB 1000

* Assuming exchange rate RMB 1.0 = SEK 1.3



Joint MSc programs: two degrees

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European Institute of Innovation and Technology (EIT)

- Combines education, research and business
- Master programs in ICT, energy and electrical systems
- Studies in two European countries
- Scholarships available

Erasmus+

- EU program at master and PhD levels
- Studies in (at least) two European countries
- Scholarships available

Nordic Five Tech

- Studies in two Nordic countries



Application requirements and process

- Completed Bachelors degree is required
- English proficiency has to be shown (TOEFL 90, IELTS 6.5 etc), but there is flexibility regarding <u>the scores</u> for interviewed students from partner universities
- 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
- Applications for admission and scholarship are only processed if the application fee is paid
- Results of admission distributed on April 3, 2020



Partner university students can apply during the last year of their bachelor studies

Language requirements may be slightly lowered after an interview in December each year but a language test (TOEFL, IELTS etc) is still required. Application fee must be paid before the interview.

The applications can be directed to all KTH master programs (but not joint programs), the normal prerequisites are required for each program

Applications are made at universityadmissions.se, deadline in mid January, admissions announced in the beginning of April



Partner university students can apply for exchange studies at KTH. Deadlines: April 15 and October 15, see: KTH (www.kth.se/en/) / Study at KTH / Exchange studies

Students can study for up to 1 year and do not have to pay tuition fees for exchange studies which do not result in a degree

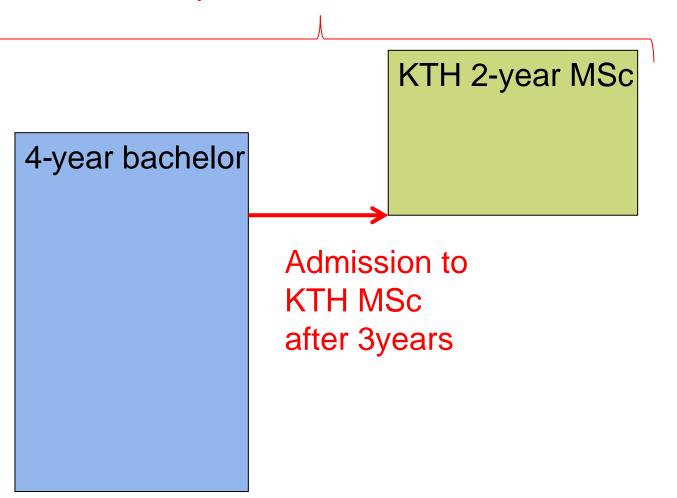
During exchange studies, it is possible to apply, in competition, for admission to a KTH master program which results in a degree

Contact your study administration for details





KTH MSc in 5years from starof bachelor studies





3+2 program

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

Applications **should follow the mapping** agreed between bachelor majors and master programs. Applications outside of the mapping have a low likelihood of admission.

Language requirements may be slightly lowered after a successful interview by KTH in December 2019 but a TOEFL or IELTS test is still required

Applications are made at universityadmissions.se , deadline January 15, 2020



3+2 applications

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Please include a table of this type in your application, including what courses you will take during the 6th semester, example for KTH master program in Engineering Physics:

prerequisites, see "Entry	Corresponding bachelor level courses at your home university
requirements"	
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



Arrival for admitted students 2020

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Arrival Days: early August and mid August:

- Bus provided from the airport Arlanda to KTH campus
- Student service, pick up service and arrival information at campus
- Sign your housing contract and pick up your keys (if you have accommodation through KTH)
- Activate your personal KTH IT-account
- Pre-sessional course about English and studies at KTH starts after the first arrival day in early August. The course is free of charge

• The lectures begin August 24, 2020



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 and take part in the pre-sessional course!





- After a KTH master degree: 1 year residence permit to look for a job or a PhD student position
 - KTH PhD student positions are publically announced at the web site, KTH MSc students may have an advantage
 - Many former KTH MSc students from China enrol as KTH PhD students
- After a KTH PhD degree: permanent residence permit in Sweden
- KTH graduates find positions all over the world



• Statistics for master programs:

- 50% had a job even before graduation
- ->90% had a job within 6 months of graduation
- ->30% became PhD students
- QS employability ranking worldwide: 75



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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



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



Public Relation & China Liaison China Euro Vehicle Technology, Sweden (W6W-aïû`Bo¶)

- Master in Industrial Management KTH, 2014
- Bachelor in Industrial Engineering Zhejiang University, 2012



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



Founder and CEO of Sensory Media Ltd. London, UK

- Master in ICT Innovation (EIT) University College London, 2014 KTH, 2013
- Bachelor in Industrial Design Zhejiang University, 2012



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

- Currently research intern at UC Berkeley on network systems, 2018-2019
- Wireless Systems (Now Information and Network Engineering), Master of Science, KTH, 2016-2018
- Automatic Control, Bachelor of Engineering, Zhejiang University, 2013-2017 (KTH-ZJU 3+2)



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



- PhD Candidate in Human Robot Collaboration KTH , u (Ñ ÿ
- Master in System, Control and Robotics KTH, 2014
- Bachelor in Control Technology
 Southeast University, 2012



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



- PhD Candidate in Biomedical Engineering ETH Zurich, Switzerland
- Master in Medical Imaging KTH, 2012
- Bachelor in Biomedical Engineering Zhejiang University, 2010



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

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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



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

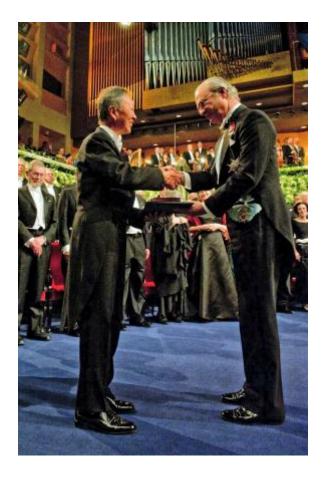
Professor Hannes Alfvén

- 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



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Nobel Prize ceremony in Stockholm on December 10 every year



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



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The Nobel Banquett

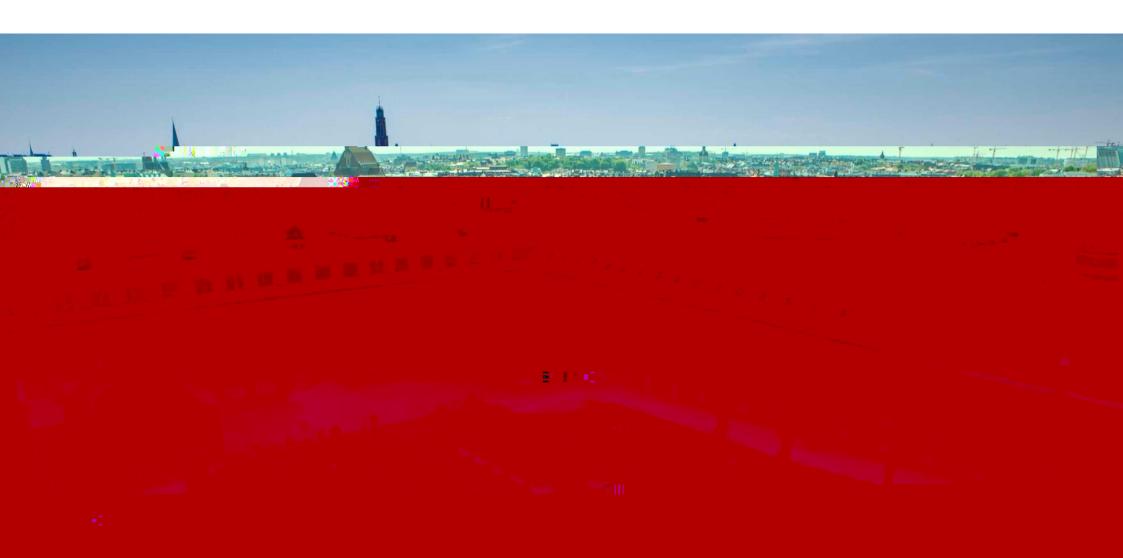


International students from KTH attended the Nobel Banquett in, the Stockholm City Hall, dressed in traditional costumes.



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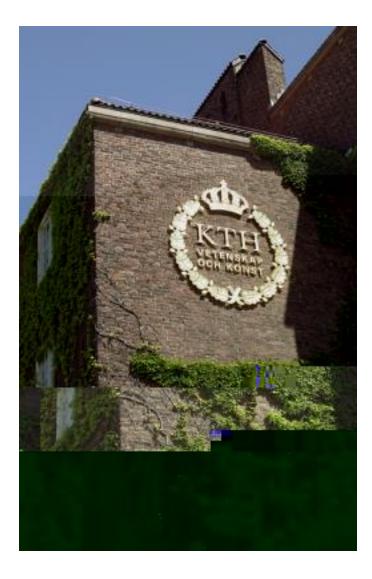
Welcome to KTH: launch your career!





KTH Royal Institute of Technology

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