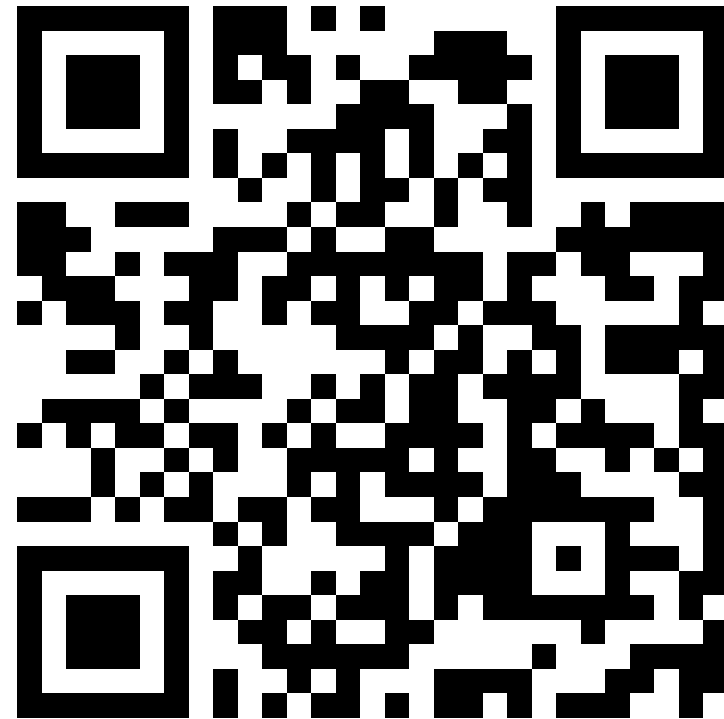




KTH Royal Institute of Technology



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



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
 - 13,000 full time students, 1,800 PhD students, 2,500 new students in master programs and 300 new PhD students each year, 600 members of faculty
 - QS rankings 2019: Global World ranking 104 but many engineering areas are much stronger:
 - Architecture 24
 - Electrical&Electronic Engineering 28
 - Mechanical Engineering 32
 - Materials Science 44
 - Civil Engineering 45
 - Computer Science, Mathematics, Physics etc 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.



Stockholm – a city of islands



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



Stockholm: an international city

- The safest city in Europe according to The Economist in 2015, nr 4 in the world
 - A multi-cultural European capital, communities from China, India and other countries
 - 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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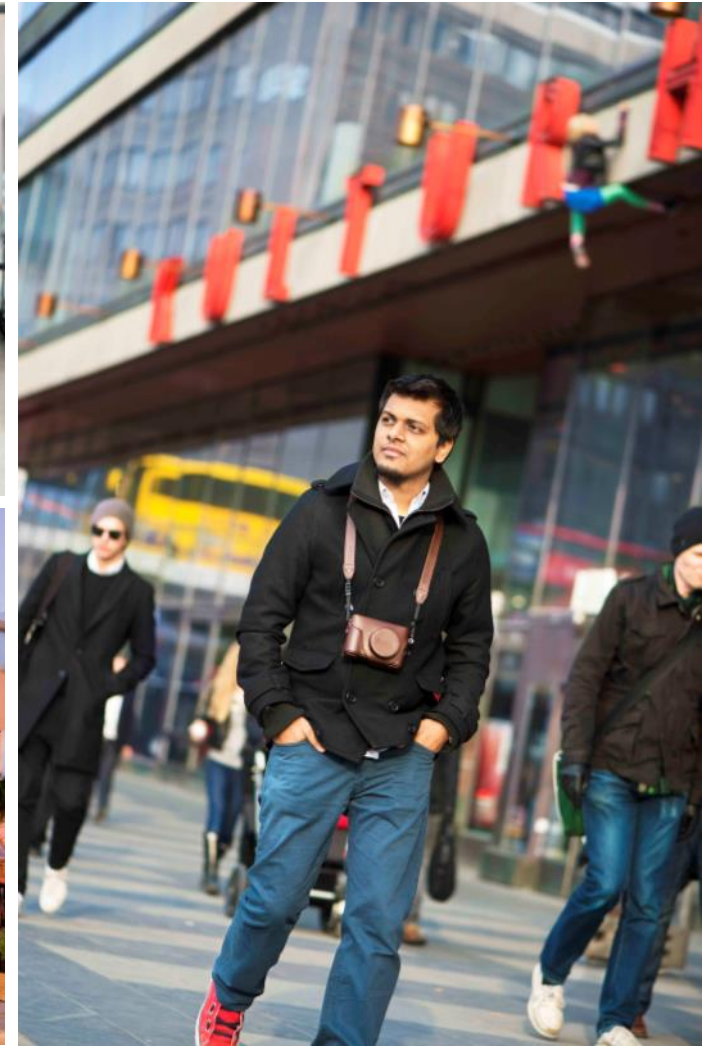








Stockholm student life, part of the city



Examples of social activities arranged by the student union:

Picnic in the summer

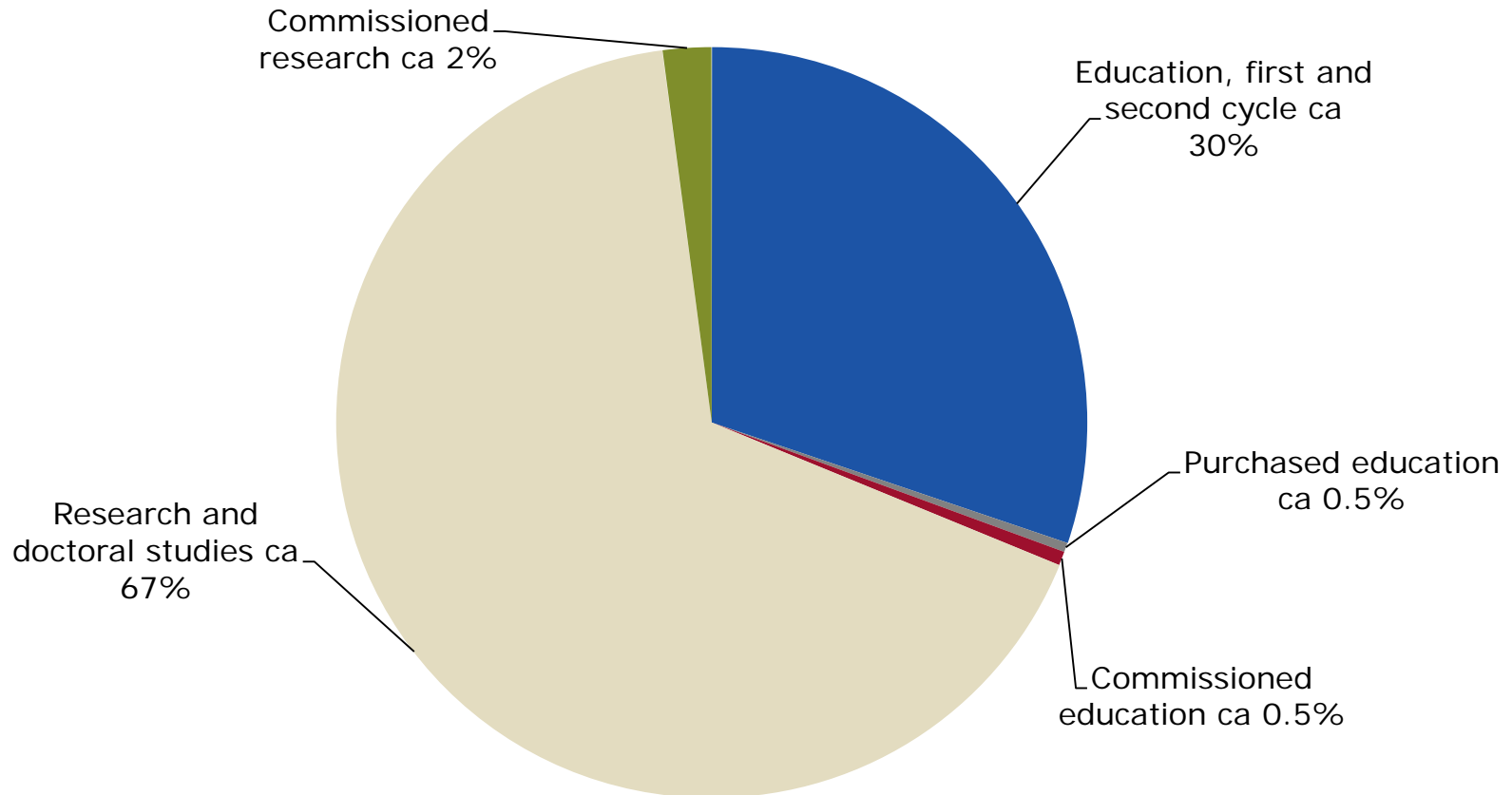


Ice skating in the winter



KTH - Research-based operations

- 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

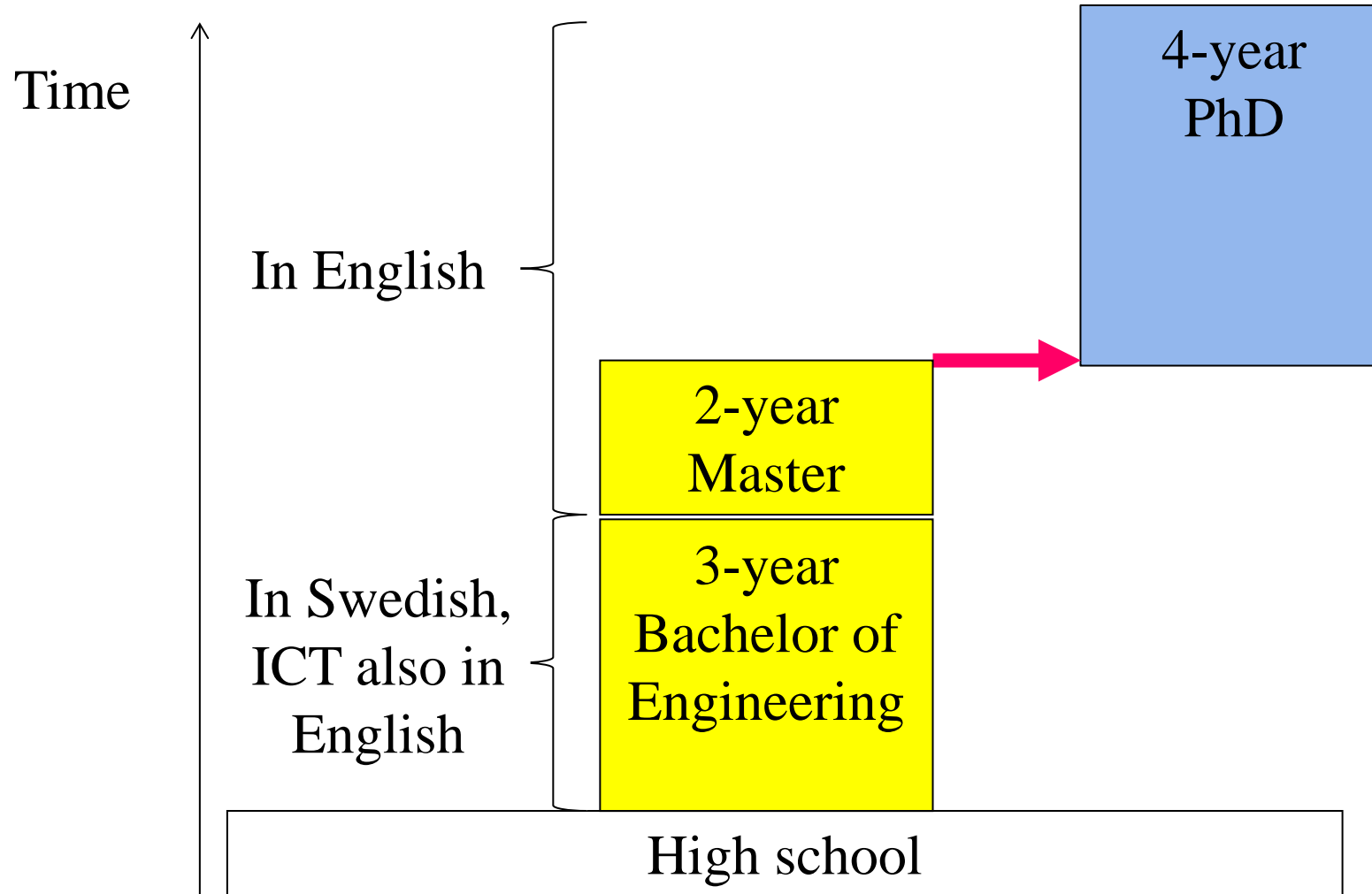




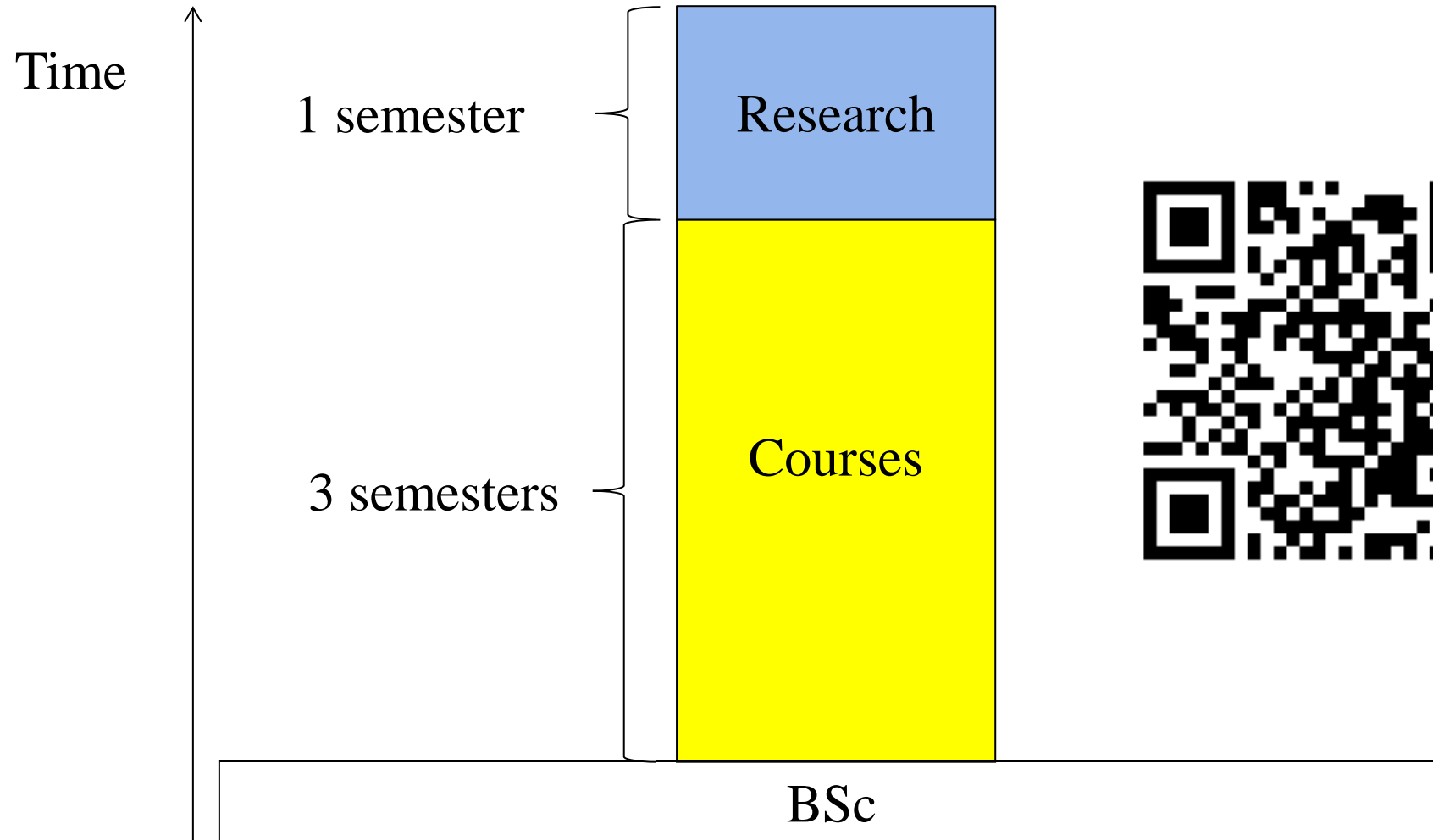
Education in close collaboration with industry

- KTH has five campuses in and around Stockholm city
 - Each campus closely integrated with local industry
 - Campus in Kista is surrounded by the world's 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 education at KTH



Structure of MSc education at KTH





MSc programmes 2019

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*, 12万人民币) 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 programmes: two degrees

European Institute of Innovation and Technology (EIT)

- Combines education, research and business
- Master's programmes in ICT and Sustainable Energy
- Includes studies in two European countries
- Scholarships included

Erasmus Mundus

- EU programme at Master's and PhD levels
 - Includes studies in (at least) two European countries
 - Scholarships covering tuition and living are available
-



Application requirements and process

- Completed Bachelor's degree is required
 - English proficiency has to be shown (TOEFL 90, IELTS 6,5 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
 - Results of admission distributed on April 4, 2019
-



KTH partner program ("4 + 2")

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

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



KTH exchange program

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**

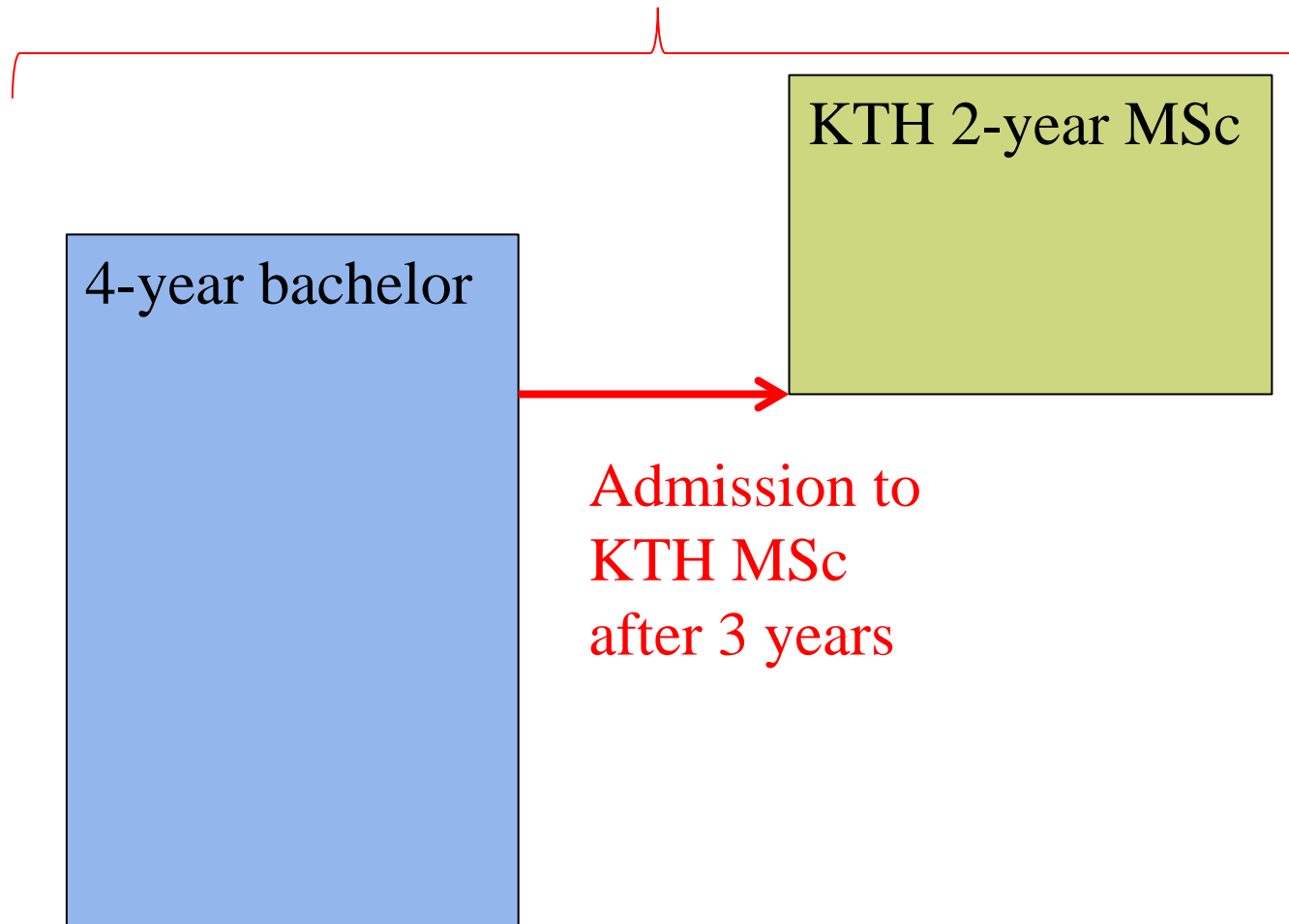
Students can study for up to 1 year and do not have to pay tuition fees for exchange studies which do not result in a degree

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

3 + 2 program

KTH MSc in 5 years from start of bachelor studies





3+2 program

Students can apply during the 3rd year of their BSc studies

Applications **must follow the mapping** agreed between bachelor majors and KTH master programs (see lists below)

Language requirements may be slightly lowered after a successful interview by KTH in December 2018

Applications are made at universityadmissions.se, deadline January 15, 2019, **application fee should be paid before the interview**



SEU – KTH 3+2 mapping

Possible transitions

SEU-Civil Engineering	KTH Civil and Architectural Engineering KTH Sustainable Technology KTH Transport and Geoinformation Technology
SEU-Electrical Engineering	KTH Electrical Power Engineering KTH Communication Systems KTH Electromagnetics, Fusion and Space Engineering
SEU-Information Engineering	KTH Communication Systems KTH Information and Network Engineering
SEU-Power and Energy Engineering	KTH Sustainable Technology KTH Sustainable Energy Engineering

Arrival for admitted students 2019

- **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 semester begins 1 September 2019**
-

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 graduation

- After a KTH MSc degree:
 - 6 months 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 enroll as KTH PhD students
 - After a KTH PhD degree: offer of permanent residence permit in Sweden
 - KTH graduates find positions all over the world
-



Career prospects after a KTH degree

- 2016 statistics for master programs:
 - 40% had a job even before graduation
 - >90% had a job within one year of graduation
 - >30% became PhD students
- QS employability ranking worldwide: 79

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



KTH alumni hold prominent positions

- Graduates find careers in international companies like Ericsson, IBM, ABB, Astra Zeneca and Microsoft
 - Many MSc students do the master thesis project at, or in cooperation with, a company.
 - KTH is the leading supplier of CEOs for Swedish industry
-

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



Public Relation & China Liaison
China Euro Vehicle Technology, Sweden
(沃尔沃-吉利 联合研究中心)

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

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)

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



- PhD Candidate in Human-Robot Collaboration
KTH 公派博士生
- Master in System, Control and Robotics
KTH, 2014
- Bachelor in Control Technology
Southeast University, 2012

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!**



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

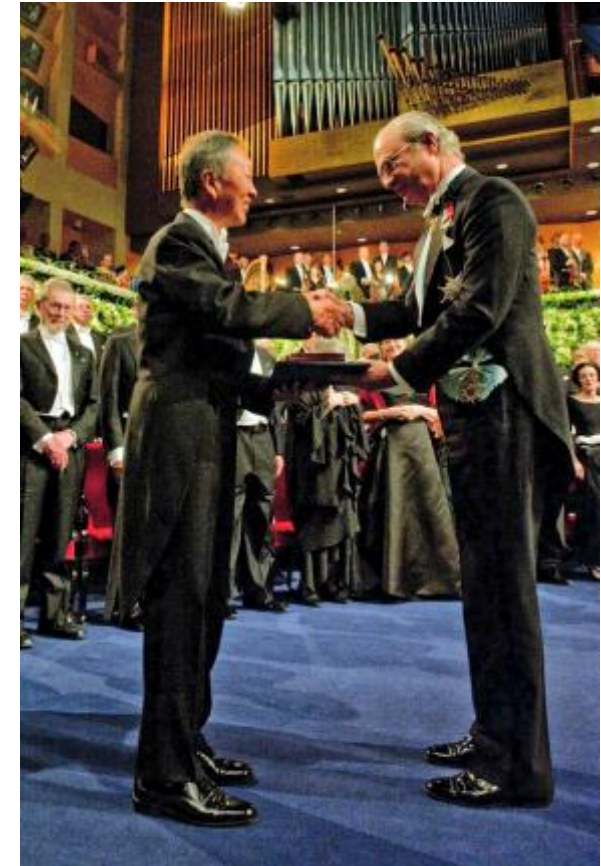
Things you can do after research at KTH... **collect the Nobel prize!**

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!





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