

KTH welcomes students from ZJU



Introduction presented by:

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Deputy director of international affairs with China



KTH Royal Institute of Technology

One of the top technical universities in Europe





Short facts about KTH

- Established 1827 in Stockholm, Sweden home of the Nobel Prize
- 14,000 students including 2,000 PhD students, 5,000 employees of which 600 members of faculty
- People from more than one hundred nations
- World-leading research and education in ICT, Energy
 Sustainability and Life Science, among other fields
- Ranked top 5 of technical universities in Europe



Short facts about KTH

- World-Wide QS subject rankings
 - Electrical Engineering: 16
 - Architecture and Built Environment: 21
 - Mechanical Engineering: 25
 - Civil and Structural Engineering: 37
 - Materials Science: 39



The Kingdom of Sweden

 About 9.8 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





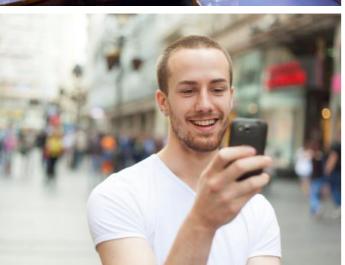
Stockholm: an international city

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



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













Stockholm: cost of living

9 Cities in China more expensive than Stockholm in world-wide comparison

| Rank 2015 | City | Country |
|-----------|---------------|----------------------|
| • 6 | Shanghai | China |
| • 7 | Beijing | China |
| • 12 | London | United Kingdom |
| • 14 | Shenzhen | China |
| • 16 | New York City | United States |
| • 15 | Guangzhou | China |
| • 21 | Shenyang | China |
| • 24 | Qingdao | China |
| • 26 | Nanjing | China |
| • 27 | Tianjin | China |
| • 29 | Chengdu | China |
| • 106 | Stockholm | Sweden |

Source, June 20, 2015: http://www.mercer.com/newsroom/cost-of-living-survey.html















Stockholm student life, part of the city











Examples of social activities for international students:

Picnic in the summer



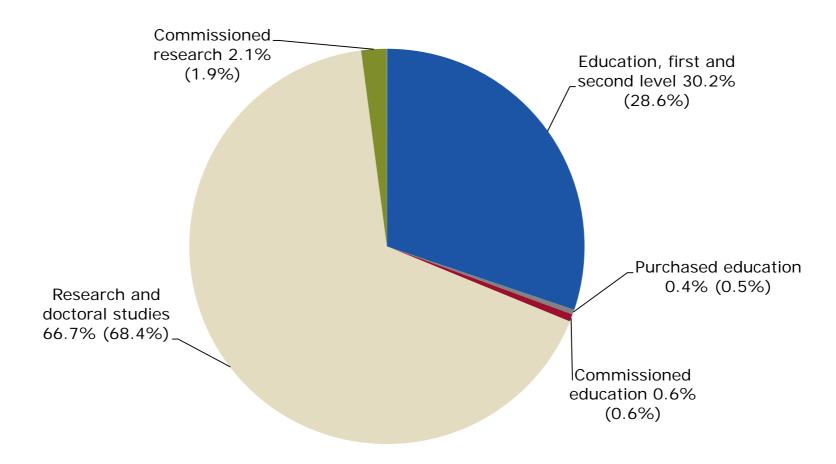
Ice skating in the winter





Research-based operations

• Total Revenue SEK 4,243 (4,038) million



• Figures for 2014 (2013)



世界瞩目的科研实力



Two presidents: 美国总统、KTH校长

一同观摩KTH有关燃料电池研究的最新进展

Picture taken September 4, 2013



Five campuses close to industry



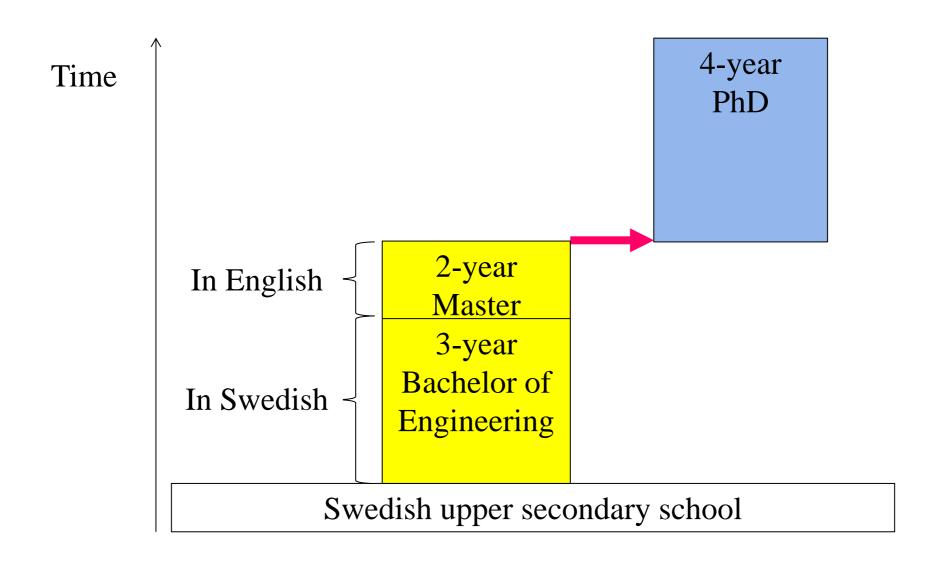


Education in close collaboration with industry

- 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

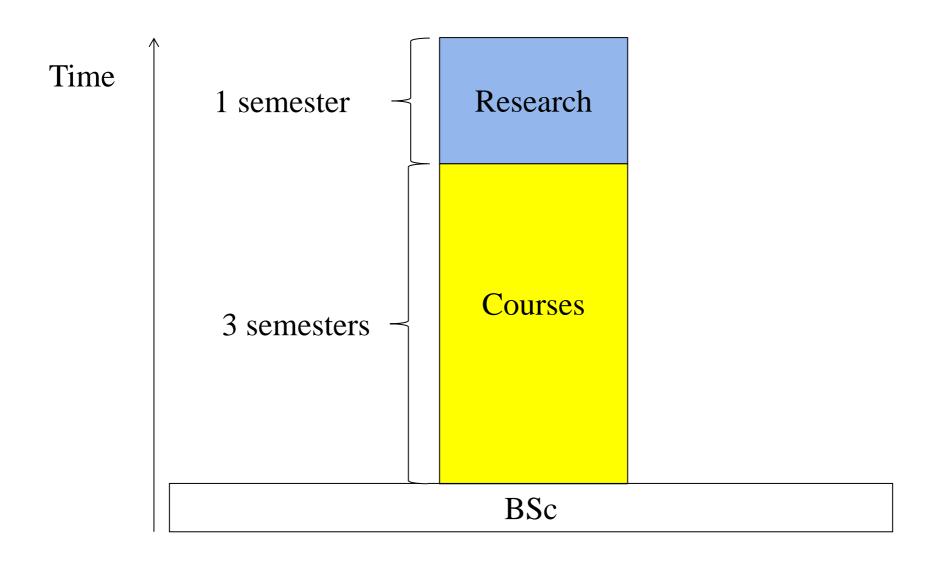


Structure of education at KTH





Structure of MSc education at KTH





MSc programmes 2015/2016

9 subject areas, >60 programmes:

- Architecture and Civil Engineering, 9 programmes
- Electrical Engineering, 11 programmes
- Engineering Physics and Mathematics, 6 programmes
- Energy and Sustainable Development, 10 programmes
- Industrial Management and Innovation, 3 programmes
- Information and Communication Technology, 10 programmes
- Life Science Technology, Chemistry and Chemical Engineering, 7 programmes
- Materials Science and Engineering, 3 programmes
- Mechanical Engineering, 9 programmes



Fees and Scholarships

- There are application and tuition fees for non-EU/EEA/Swiss citizens for 1st and 2nd cycle studies (BSc and MSc)
- The tuition fee is SEK145k (about RMB 110k, 11万人民) 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)



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 7300 (ca RMB 6000) per month for ten months of the year

Recommended student budget for one month in Stockholm is SEK 7-10000 (approx RMB 6000-8000)



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 (except for 3+2 partner students in mapped transitions)
- English proficiency has to be shown (TOEFL 90, IELTS 6,5 etc), but there is flexibility for interviewed students from partner universities, interviews in December 2015
- 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



ZJU-KTH partner program

ZJU students can apply during the last year of their BSc studies and be interviewed by KTH in December 2015: increases chances of scholarship

Language requirements may be slightly lowered after a successful interview

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

Applications are made at universityadmissions.se, deadline January 15, 2016, application fee should be paid before the interview



ZJU-KTH 3+2 program

ZJU students can apply during the 3rd year of their BSc studies and be interviewed by KTH in December 2015

Language requirements may be slightly lowered after a successful interview

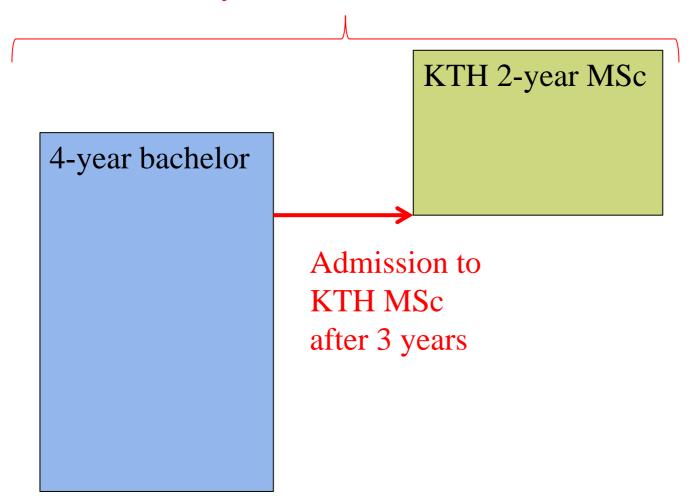
Applications must follow the mapping agreed between 22 ZJU bachelor majors and 26 KTH master programs (see list below)

Applications are made at universityadmissions.se, deadline January 15, 2016, application fee should be paid before the interview



ZTU-KTH 3+2 program

KTH MSc in 5 years from start of bachelor studies





| ZJU Bioengineering | KTH Industrial and Environmental Biotechnology |
|------------------------------|--|
| | KTH Medical Biotechnology |
| | KTH Sustainable Technology |
| ZJU Chemical Engineering and | KTH Chemical Engineering for Energy and |
| Technology | Environment |
| | KTH Macromolecular Materials |
| | KTH Molecular Science and Engineering |
| | KTH Nanotechnology |
| | KTH Sustainable Technology |
| ZJU Civil Engineering | KTH Real Estate and Construction Management (Students must have completed KTH courses Engineering Economics, 2 credits; Engineering Project Management, 2 credits; Real Estate Economics and Evaluation, 2 credits; Civil Engineering Construction 3 credits, or equivalent) |
| | KTH Civil and Architectural Engineering |
| | KTH Environmental Engineering and Sustainable |
| | Infrastructure |
| | KTH Transport and Geoinformation Technology |
| | KTH Sustainable Technology |



| ZJU Earth Science | KTH Environmental Engineering and Sustainable Infrastructure |
|---|--|
| | KTH Sustainable Technology |
| ZJU Electrical Engineering Track | KTH Electrophysics (Only students from track |
| Electronic Automation | electronic automation are eligible and then depending |
| respective Control | on student's course selection) |
| | KTH Electric Power Engineering (Maximum of 5 |
| | students) |
| | KTH Engineering Design (Only students from track electronic control are eligible and then only for track: Mechatronics) |
| ZJU Electronic Information | KTH Nanotechnology |
| Engineering Track Integrated Circuit and Power Electronics | KTH Embedded Systems (Only students from track Integrated Circuit are eligible and then only for track: Embedded Platform) |



| | KTH Electric Power Engineering (Maximum of 3 | |
|------------------------------|--|--|
| Technology | students) | |
| | KTH Wireless Systems | |
| | KTH Network Services and Systems | |
| ZJU Energy and Environmental | KTH Electrophysics (Eligibility depending on student's | |
| System Engineering | course selection) | |
| | KTH Sustainable Energy Engineering | |
| | KTH Sustainable Technology | |
| ZJU Industrial Engineering | KTH Engineering Design | |
| | KTH Integrated Product Design | |
| ZJU Information and | KTH Network Services and Systems | |
| Communication Enginering | KTH Wireless Systems | |
| | KTH Communication Systems | |
| ZJU Material Science and | KTH Nanotechnology | |
| Engineering | KTH Engineering Materials Science | |



| ZJU Mechanical Engineering and | KTH Production Engineering and Management |
|--------------------------------|---|
| Automation | KTH Engineering Design |
| | KTH Integrated Product Design |
| | KTH Engineering Mechanics (Maximum of 4 students) |
| ZJU Mechanical Engineering | KTH Sustainable Energy Engineering |
| Design and Automation | KTH Production Engineering and Management |
| | KTH Engineering Design |
| | KTH Integrated Product Design |
| | KTH Vehicle Engineering |
| | KTH Engineering Mechanics (Students only eligible for |
| | track: Fluid Mechanics. Maximum of 4 students) |
| ZJU Mechatronics Engineering | KTH Engineering Design (Students only eligible for |
| | track: Mechatronics) |
| | KTH Integrated Product Design |
| ZJU Ocean Engineering | KTH Sustainable Technology |
| ZJU Ocean Science and | KTH Sustainable Technology |
| Engineering | |



Possible transitions, 22BSc-26MSc

| ZJU Pharmaceutical | KTH Sustainable Technology |
|--------------------------------|--|
| Engineering | |
| ZJU Polymer Science and | KTH Macromolecular Materials |
| Engineering | KTH Nanotechnology |
| | KTH Sustainable Technology |
| ZJU Science and Engineering of | KTH Electrophysics (Eligibility depending on student's |
| Novel Energy | course selection) |
| | KTH Sustainable Energy Engineering |
| | KTH Sustainable Technology |
| ZJU System Science and | KTH Systems, Control and Robotics (Maximum of 3 |
| Engineering Track Automation | students) |
| och Track System Science | KTH Wireless Systems |
| New from 2015: | |
| ZJU Biomedical Engineering | KTH Medical Engineering |



ZJU-KTH exchange program

ZJU students can apply for exchange studies at KTH. Deadlines: April 15 and October 15, see: KTH / 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)

For more information: contact ZJU about exchange studies



Questions from ZJU students

You can ask the following ZJU students who are now at KTH studying Systems, Control and Robotics as 3+2 students:

CHEN YANBEI

cybemma@gmail.com, yanbei@kth.se, cybemma@qq.com

XU ZIWEI

ziweixu702@gmail.com, ziweix@kth.se, 962069594@qq.com

You can also contact He Yingfang at KTH International Relations Office, yingfang@kth.se

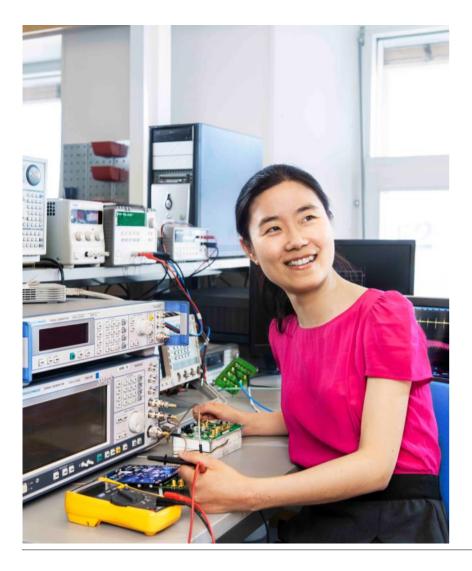


After graduation

- 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
 - In 2014, 10 former KTH MSc students from China enrolled as KTH PhD students with CSC scholarships
- After a KTH PhD degree: offer of permanent residence permit in Sweden
- KTH graduates find positions all over the world



PhD studies



- Three years of full-time research, one year of courses
- Engages more than 2,200 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:

www.kth.se/en/om/work-at-kth/vacancies

 Employment with a salary if admitted, but competition for positions



KTH — CSC Program KTH 公派项目

- Thanks to an agreement between KTH and the Chinese Scholarship Council (国家留学基金委), a number of scholarships can be offered to Chinese citizens applying to KTH. The scholarships available are aimed for PhD students, Postdocs and Visiting Scholars.
- Every year,
 50 scholarships for Full PhD (48 months);
 20 for Guest Doctoral Studies (up to 24 months)

See more:

- www.kth.se/gongpai-china
- china.kth.se



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. In 2009, more than half of the graduates had accepted jobs before completing their studies
- KTH is the leading supplier of CEOs for Swedish industry





Network Engineer TeliaSonera, Sweden

- Master in Network Services and Systems KTH, 2015
- Bachelor in Optoelectronic Engineering Harbin Institute of Technology, 2013





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





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





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





仇旻 教授 Professor in Photonics, KTH

Director of State Key Laboratory of Modern Optical Instrumentation, Zhejiang University

- PhD in Electromagnetics KTH, 2001
- PhD in Physics ZJU, 1999





顾纯元 博士 Chairman & President ABB North Asia and China

- PhD in Mechanical Engineering KTH 公派博士生, 1987
- Bachelor in Power Engineering Shanghai Jiao Tong University, 1982





徐匡迪 院士

- Vice Chairman of CPPCC National Committee 第十届全国政协副主席, 2003-2008
- Chairman of CAE, 中国工程院院长, 2002-2010
- Mayor of Shanghai, 上海市市长, 1995-2001
- Senior Researcher in Material Sciences
 KTH 公派访问学者, 1986
- Bachelor in Metallurgy
 University of Science & Technology Beijing,
 1959



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



Prof. Christer FuglesangProfessor in Space Physics, KTH

- Mission crew STS-116 & STS-128 Shuttle Discovery, NASA-ESA 2006 & 2009
- Astronaut at European Space Agency 1992-present
- CERN, Switzerland, 1991
- PhD in Experimental Particle Physics Stockholm University, 1986
- Master in Engineering Physics KTH, 1981



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



Prof. Hannes Alfvén

- Nobel Prize in Physics, 1970 for Magnetohydrodynamics 磁流体力学 (等离子物理)
- Professor in Electrical Eengineering University of California, 1967-1991
- Professor in Electromagnetic Theory and Electrical Measurements KTH, 1940-1991
- PhD in Electromagnetic Waves Uppsala University, 1934



Welcome to KTH: launch your career!

