

KTH welcomes students from ZJU



Introduction presented by:

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A group of four international students are studying together outdoors in front of a large, historic brick building. In the foreground, three students are gathered around a small table, looking at a laptop and a book. A fourth student is standing in the background, also looking at a book. The students are dressed in casual attire, and the scene is set on a cobblestone path with green lawns and manicured hedges. The building in the background has many windows and a red-tiled roof, suggesting a European university setting.



Short facts about KTH

- Established 1827 in Stockholm, Sweden – home of the Nobel Prize
 - 17,000 students, 3,400 employees of which >300 professors, and >2,000 PhD students from more than one hundred nations
 - World-leading research and education within ICT, Energy & Sustainability and Life Science, among other fields
 - Ranked as top 5 of technical universities in Europe
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The Kingdom of Sweden

- About 9.6 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: 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
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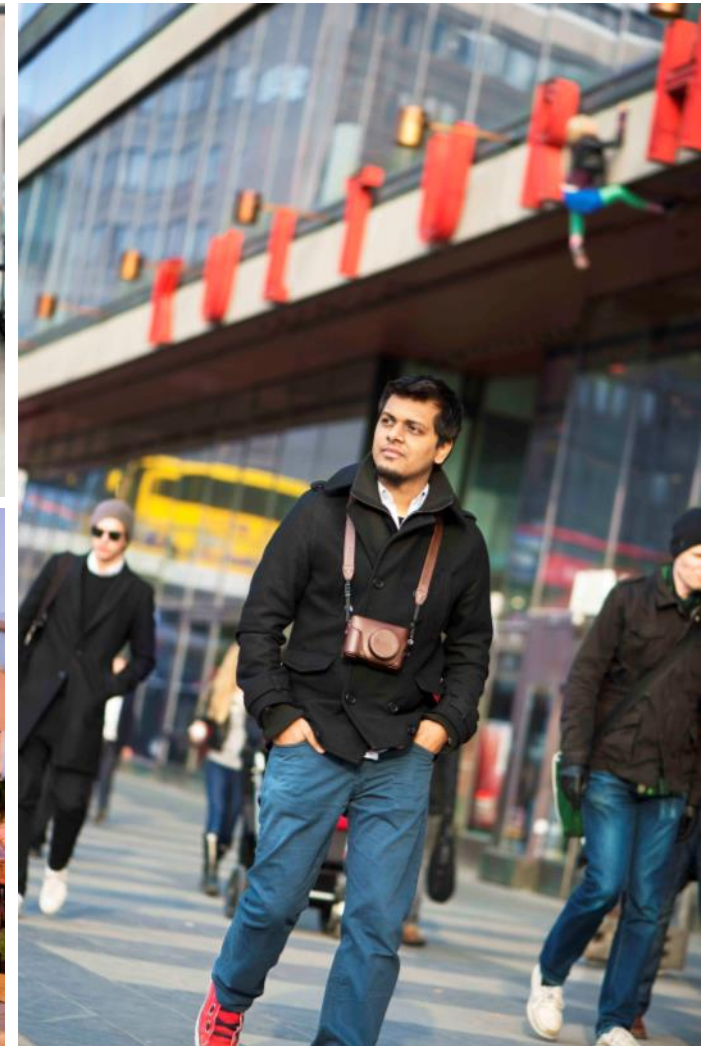








Stockholm student life, part of the city



Examples of social activities for international students:

Picnic in the summer



Ice skating in the winter



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

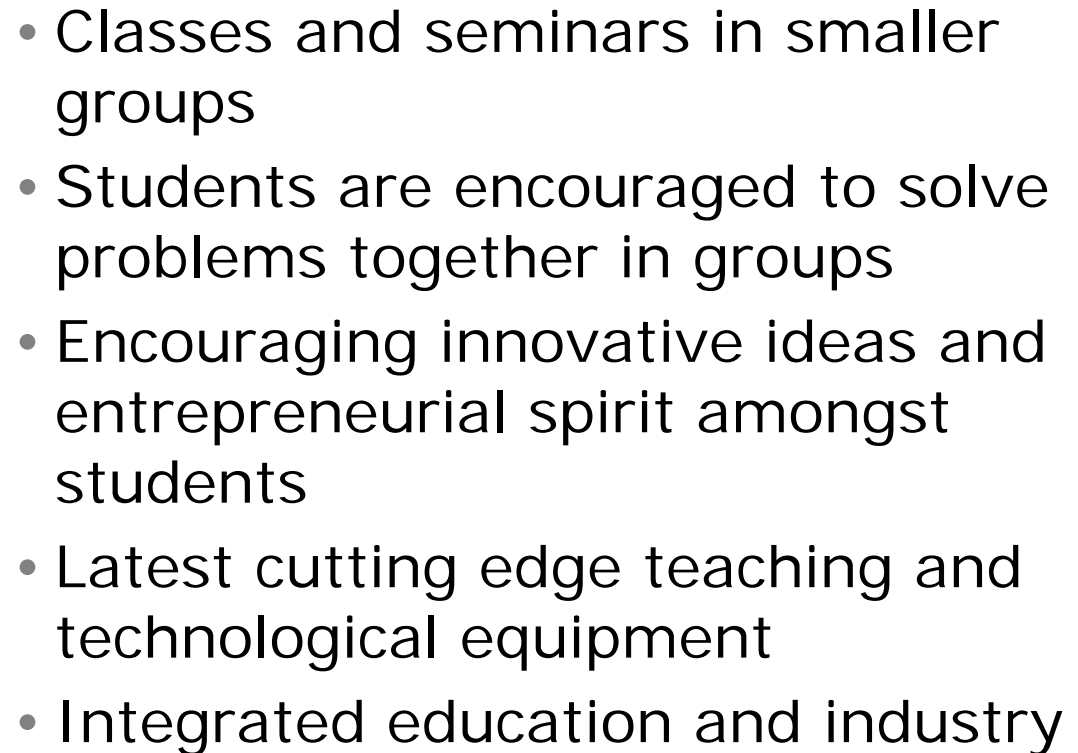
Five campuses close to industry

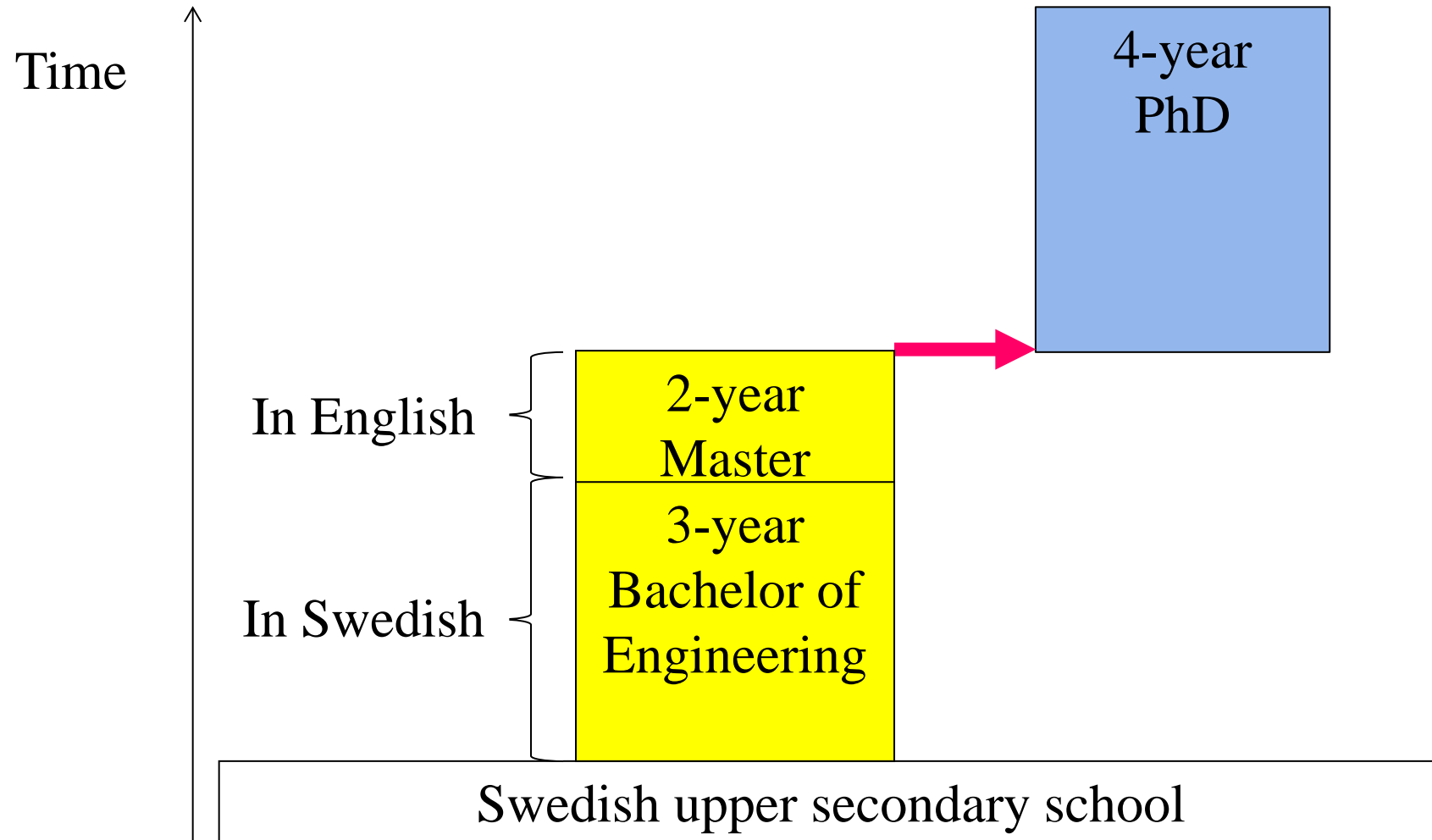




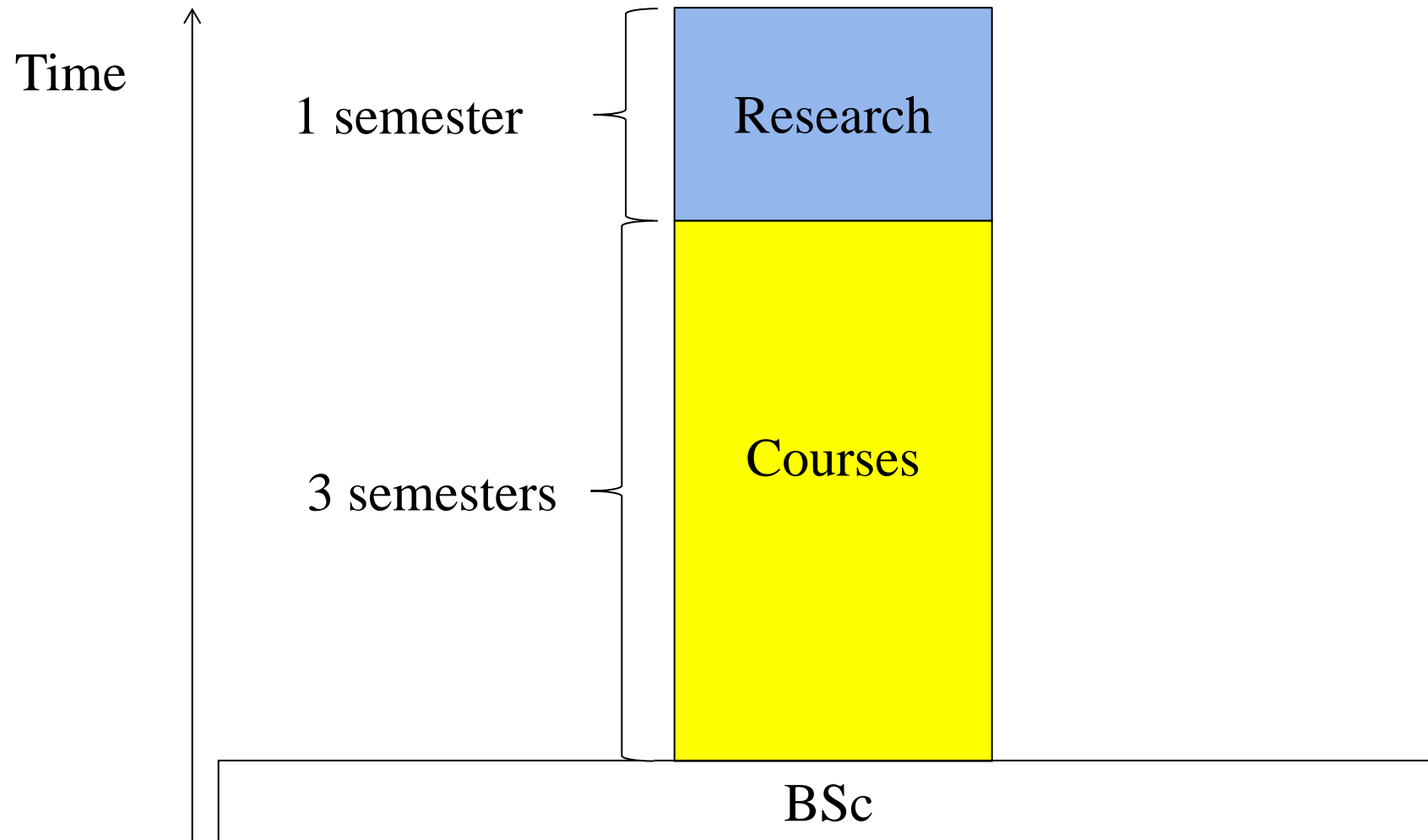
Education in close collaboration with industry

- 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
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Structure of MSc education at KTH



MSc programmes 2014/2015

9 subject areas, >60 programmes:

- Architecture and Civil Engineering, 9 programmes
- Electrical Engineering, 8 programmes
- Engineering Physics and Mathematics, 7 programmes
- Energy and Sustainable Development, 7 programmes
- Industrial Management and Innovation, 3 programmes
- Information and Communication Technology, 10 programmes
- Life Science Technology, 5 programmes
- Materials Science and Engineering, 2 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 (BSc and MSc)
 - The tuition fee is SEK145k (about RMB125k, Architecture ca 70% higher) for one year of full-time study
 - Scholarships are available, for example:
 - KTH tuition fee waivers
 - SI: the Swedish Institute
 - Joint programmes: Erasmus Mundus and EIT (European Institute of Innovation and Technology)
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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
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KTH – CSC Program

- Thanks to an agreement between KTH and the Chinese Scholarship Council, a number of scholarships can be offered to Chinese citizens applying to KTH. The scholarships available are aimed for Master students, PhD students, Postdoc Researchers and Visiting Scholars.
- 90 scholarships per year at KTH of which 50 for PhD and 5 for MSc

See more:

- www.kth.se/int
 - china.kth.se
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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 2014
- There are programme-specific requirements (see www.kth.se/en/studies/master)
- Apply at www.universityadmissions.se
- Online application period:
October 16, 2014, to January 15, 2015





ZJU-KTH 4+2 program

ZJU students can apply during the 4th year of their BSc studies and be interviewed by KTH in December 2014

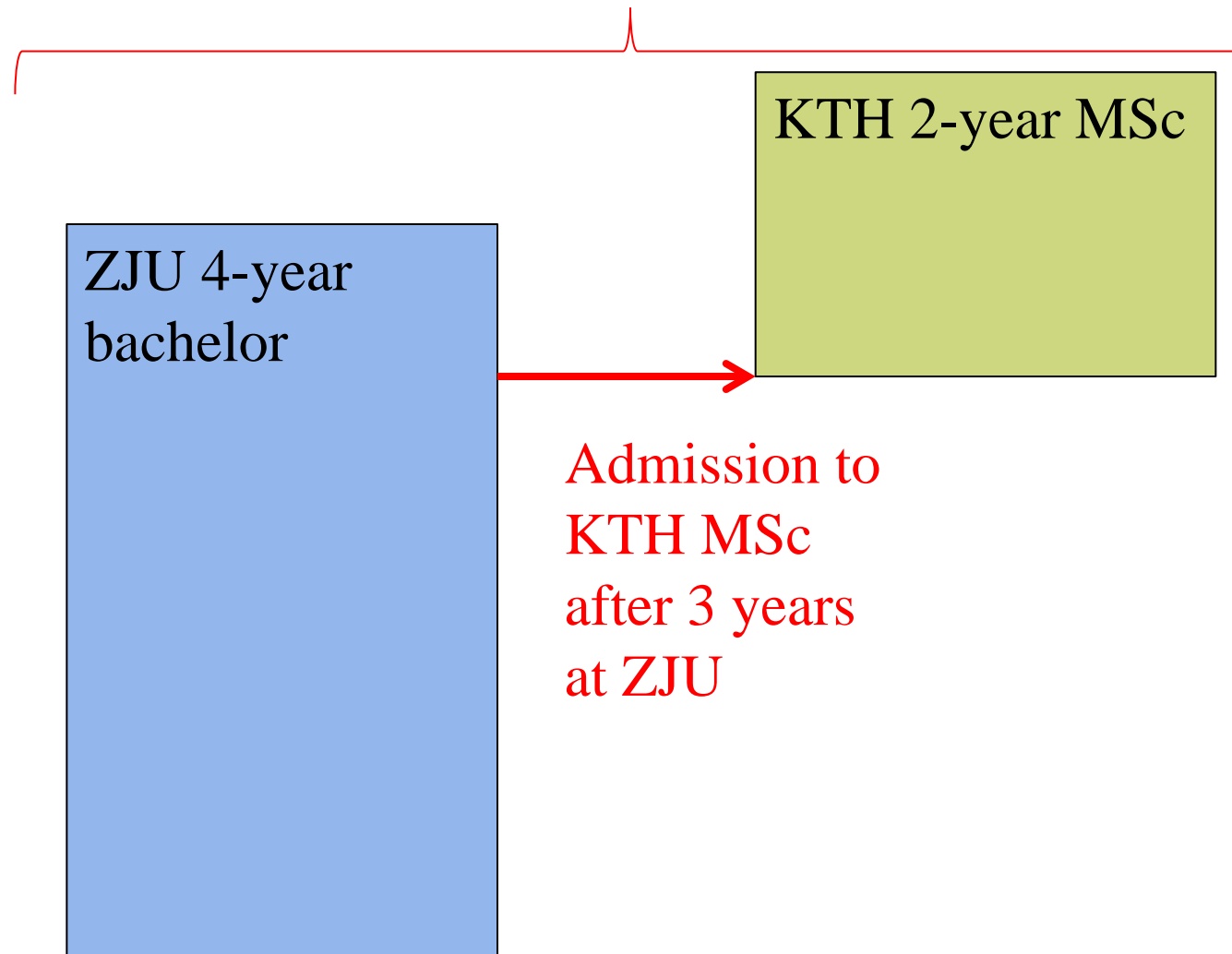
Language requirements may be slightly lowered after a successful interview

The applications can be directed to all KTH MSc programs, the normal prerequisites are required for each program

Applications are made at universityadmissions.se, deadline January 15, 2015

ZJU-KTH 3+2 Collaborative Academic Program (CAP)

Degrees: ZJU bachelor and KTH MSc in 5 years





Admission requirements for ZJU-KTH 3+2 applicants

The CAP has three phases.

Phase I: ZJU will select students as candidates for study at KTH under the CAP Program, the students will apply to KTH, and they will have completed three years of studies at ZJU in order to be eligible.

Phase II: Admitted students commence their studies in their chosen discipline at KTH. Upon completing the amount of credits required by ZJU to issue a Bachelor's degree to the student, the student can apply for such a degree.

Phase III: Students will receive a Master's degree from KTH upon successful completion of the program.

English proficiency:

Same as for all applicants but language requirements may be slightly lowered after a successful interview



Possible transitions, 21 BSc-24 MSc

ZJU Bioengineering	KTH Industrial and Environmental Biotechnology
	KTH Medical Biotechnology
	KTH Sustainable Technology
ZJU Chemical Engineering and Technology	KTH Chemical Engineering for Energy and 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 Environmental Engineering and Sustainable Infrastructure
	KTH Transport and Geoinformation Technology
	KTH Sustainable Technology



Possible transitions, 21 BSc-24 MSc

ZJU Earth Science	KTH Environmental Engineering and Sustainable Infrastructure
	KTH Sustainable Technology
ZJU Electrical Engineering Track Electronic Automation respective Control	KTH Electrophysics (Only students from track electronic automation are eligible and then depending 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 Engineering Track Integrated Circuit and Power Electronics	KTH Nanotechnology
	KTH Embedded Systems (Only students from track Integrated Circuit are eligible and then only for track: Embedded Platform)



Possible transitions, 21 BSc-24 MSc

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

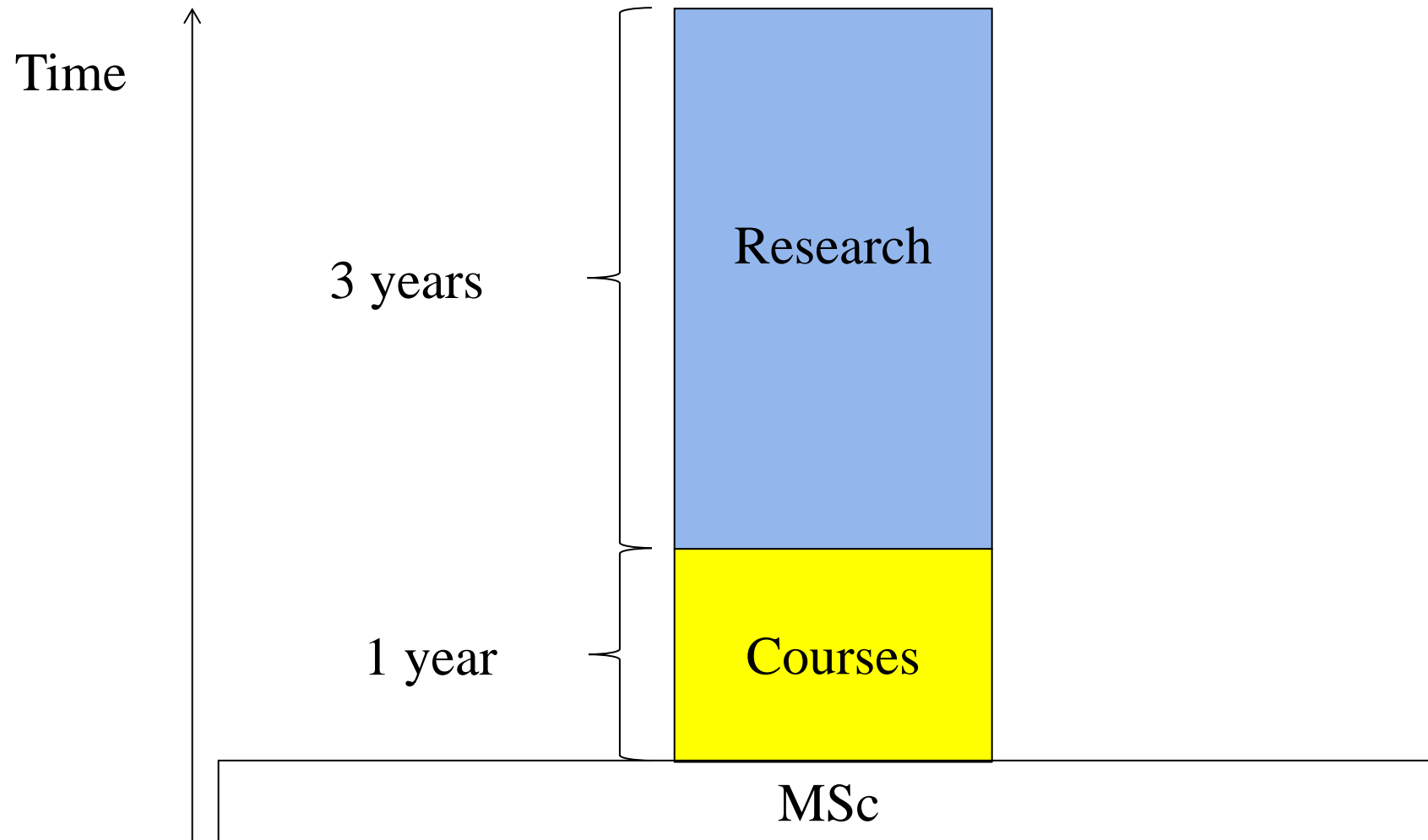
Possible transitions, 21BSc-24MSc

ZJU Pharmaceutical Engineering	KTH Sustainable Technology
ZJU Polymer Science and Engineering	KTH Macromolecular Materials
	KTH Nanotechnology
	KTH Sustainable Technology
ZJU Science and Engineering of Novel Energy	KTH Electrophysics (Eligibility depending on student's course selection)
	KTH Sustainable Energy Engineering
	KTH Sustainable Technology
ZJU System Science and Engineering Track Automation och Track System Science	KTH Systems, Control and Robotics (Maximum of 3 students)
	KTH Wireless Systems
ZJU Biomedical Engineering*	KTH Medical engineering*
*) Preliminary, new for entry in 2015	

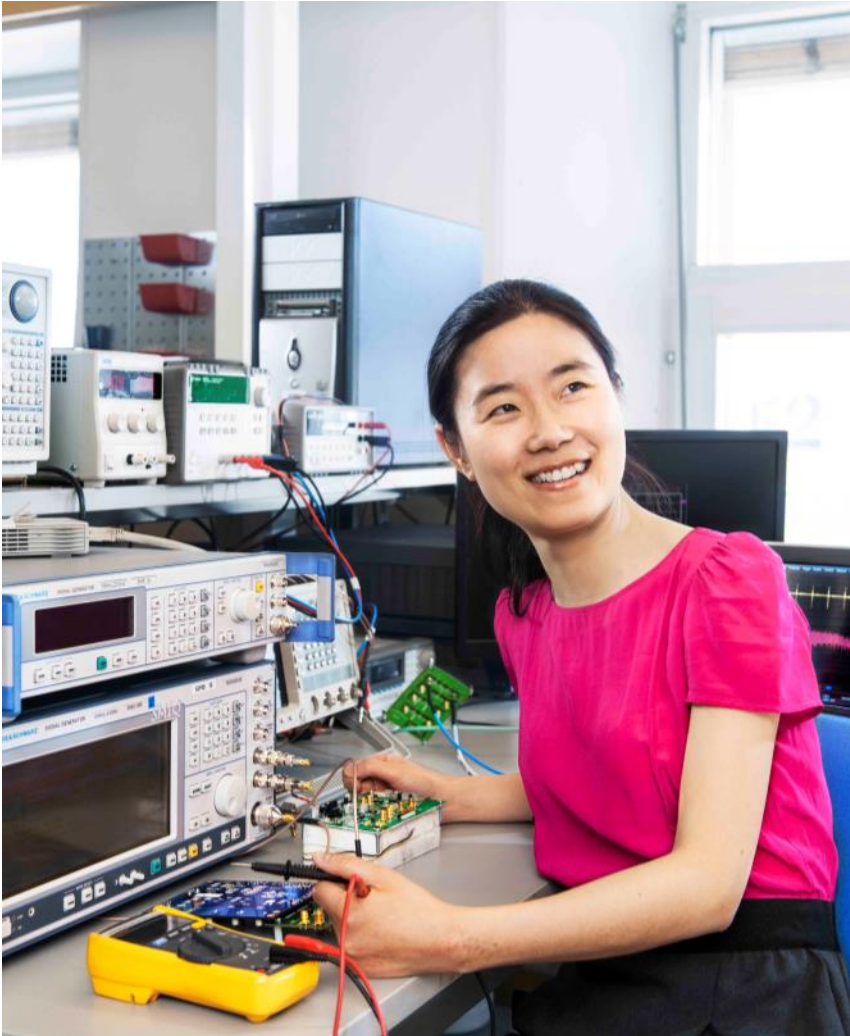
After graduation

- 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
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Structure of PhD education at KTH



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 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
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KTH alumni

An example is Chunyuan Gu who has been appointed head of ABB business in China and the North Asia region as of Jan. 1, 2014.

Gu has a degree in Engineering from Shanghai Jiao Tong University in China, and a PhD in Engineering from KTH.



He worked as a research fellow at KTH before joining ABB.



ROYAL INSTITUTE
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KTH-China Research Cooperation

清华大学前校长顾秉林曾从师于KTH教授、
瑞典皇家科学院诺贝尔物理学奖评委会前主席Börje Johansson

前上海市市长、中国工程院前院长、
现名誉院长、第十届全国政协副主席
徐匡迪曾在KTH做访问学者，



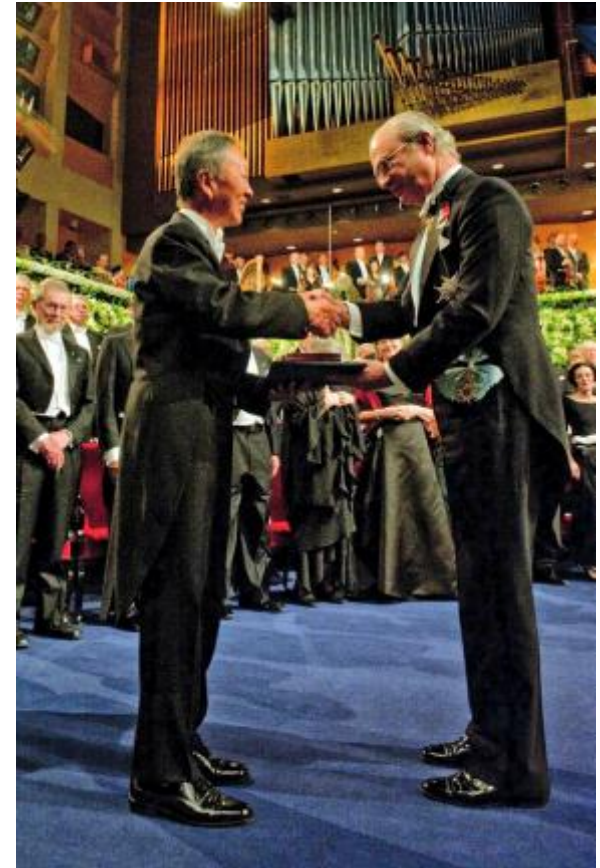


Things you can do after finishing education at KTH...



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

Collect the Nobel Prize...



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

...and go into space

Christer Fuglesang, Sweden's first astronaut, studied Engineering Physics at KTH. He is an Adjunct Professor at KTH.

Christer has been on two trips to the international space station. On the second journey, he spent his free time measuring particle radiation, using a device of his own invention – built at KTH.

Christer is now the director of the Master's programme in Aerospace Engineering at KTH.



Christer Fuglesang performing one of his missions at the International Space Station.



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JORCEP – Joint Research Center of Photonics at ZJU Zijingang campus in Hangzhou since 2003



Joint Research Center of Photonics



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Welcome to KTH: launch your career!

