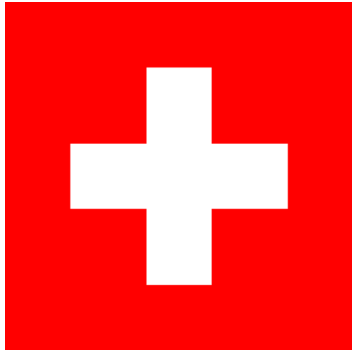


Study in Switzerland

Zurich University of Applied Sciences

Cooperation
for Engineering Education



Zurich University
of Applied Sciences





- Reach destinations in Europe within 2 hours
- The School of Engineering is located in Winterthur, a 15-minute train ride from Zürich



<https://www.myswitzerland.com/de-ch/winterthur.html>

- The perfect public transport connections allow easy and comfortable travel in the country and in Europe



- 41,285 km² or 1.5 ‰ of the world's surface area
- 220 km North-South
348 km West-East

- 65'000 km hiking trails
- 7000 Lakes
- Maritime climate north of the Alps;
Mediterranean influence south of the Alps

- Population 8.67 million with 25% internationals
- 4 official languages & English

- Home to two of the most liveable cities in the world (Zürich and Geneva)
- Switzerland's Gotthard Tunnel is the longest in the world
- It's Home to Einstein's Most Famous Formula



Source: <https://www.ezilon.com/maps/europe/switzerland-road-maps.html>

- World Nr. 1 Global Innovation Index 2020
<https://www.globalinnovationindex.org/analysis-indicator>
- One of the most competitive economies in the world (IMD 2021)
<https://www.imd.org/centers/world-competitiveness-center/rankings/world-competitiveness/>

Welcome to Winterthur



Winterthurer
Hochschule für Angewandte Wissenschaften

zhaw School of Engineering



Winterthur

Winterthur University
of Applied Sciences

zhaw School of Engineering



The Zürich University of Applied Sciences

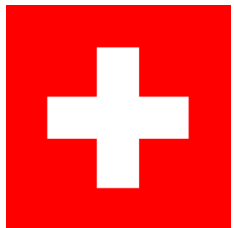
Zürcher Hochschule
für Angewandte Wissenschaften

zhaw School of Engineering



ZHAW – Our Locations

Erziehungswissenschaften
für Ingenieurinnen und Ingenieure



Wädenswil
ts

1 University
3 Locations
8 Schools

School of Management and Law

5'024
School of Management and Law

Linguistic

850
Linguistik

Social Work

864
Soziale Arbeit

435
Architektur

661
Psychologie

Life Sciences

1'628
Life Sciences

1'764
Gesundheit

Health Profession

2'259
School of Engineering

School of Engineering



13'485
Total ZHAW



Study at the School of Engineering

Universität Zürich
für Ingenieurwissenschaften

zhaw School of Engineering



1892



21th century



ZHAW School of Engineering (SoE)

Strong Position

- We educate 20% of the Engineers in CH
- 9 Bachelor's programs & Master's program with 11 profiles
- State of the art infrastructure and laboratories
- Praxis focussed education – cooperation with the industry

English Modules

- 113 modules (classes) with 415 ECTS Credits
- You can choose modules from different programs
- The master with 11 profiles is entirely taught in English
- Please check modules taught in English

<https://www.zhaw.ch/en/engineering/study/international-office/studying-in-switzerland/>

Focus Areas & Interdisciplinary R&D platforms

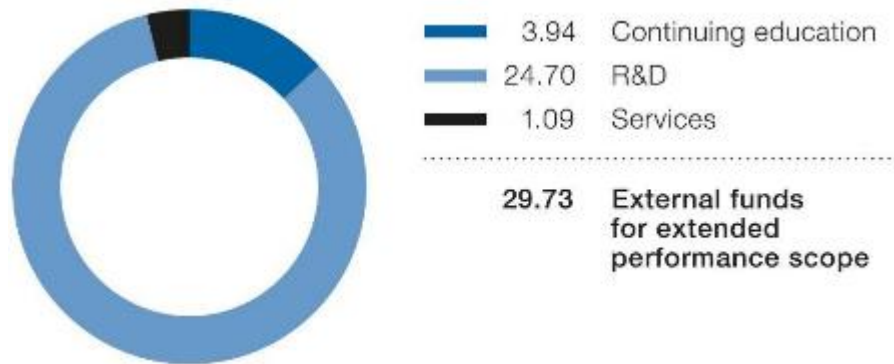
- Health, Mobility, Energy, Information
- R&D Platforms: Digital Mobility, Industry 4.0, Intelligent Motion, Medical Systems, Photovoltaic, Smart cities and regions, Photonics

Strong Partnerships



R&D at ZHAW School of Engineering

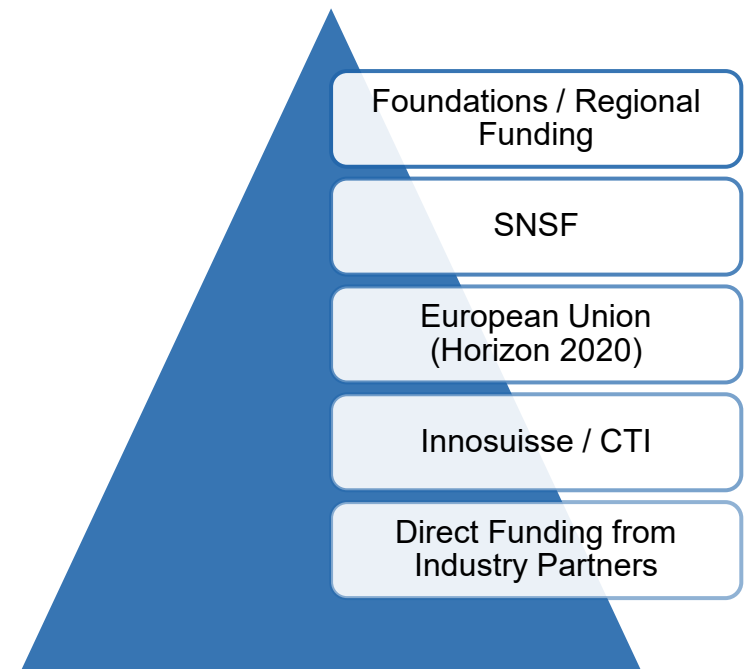
The main advantage of R&D at a UAS like ZHAW:
Lecturers are active in R&D and in teaching. This allows for «native» and direct Technology Transfer in both directions.



External funds for extended performance mandate in millions
Funds consist of third-party contributions, other funding from the federal government, contributions from CTI, SNF, EU and other international research programmes.

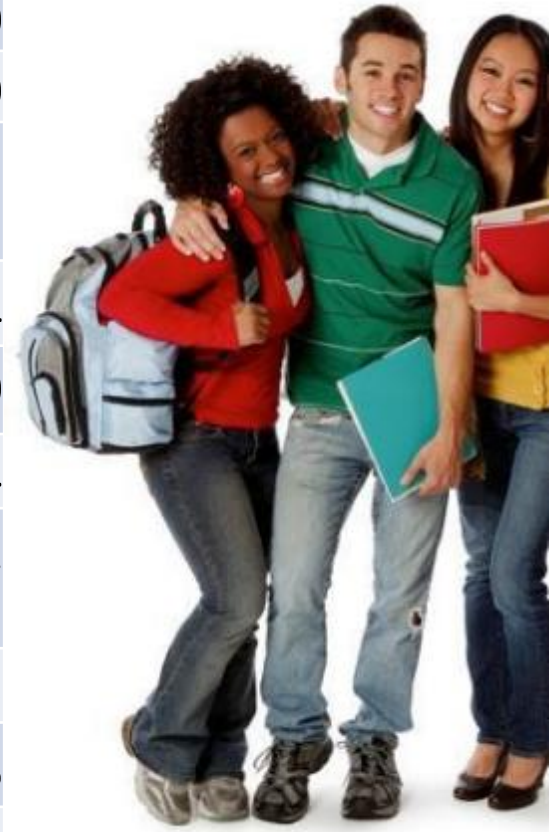
Figures based on the 2018 financial year.

Funding sources for R&D:



Number of students per degree programme autumn semester

	2019	2020
Aviation	251	260
Computer Sciences	644	660
Data Sciences	Start autumn 2021	
Electrical Engineering	179	154
Energy and Environmental Engineering	72	80
Engineering and Management	286	274
Mechanical Engineering (incl. Materials and Process Engineering)	387	361
Systems Engineering	150	185
Transportation Systems	67	66
Master of Science in Engineering	223	231



Master of Science in Engineering (MSE)

- The term MSE (Master of Science in Engineering) denotes 14 separate Master's courses/profiles in engineering.
- ZHAW School of Engineering offers the following eleven profiles:
 - Aviation, Business Engineering, Civil Engineering,
 - Computer Science, Data Science,
 - Electrical Engineering, Energy and Environment,
 - Mechanical Engineering, Mechatronics and Automation,
 - Medical Engineering and Photonics.
- Master's students are allocated to an institute/centre which has a high level of expertise in your chosen profile. There, you will work on practical R&D projects

<https://www.zhaw.ch/en/engineering/study/masters-degree-programme/>

We offer:

- An attractive set of English taught modules
- Laboratory work as an integral part of most modules
- Small classes
- The option to perform project work
- The possibility of a scholarship
- Support by buddies
- Continuous, individual support (if needed) by the international office
- Free access to sport facilities (ASVZ)
- Access to activities e.g., organized by the Erasmus Student Network (ESN)

Programs with English taught modules

Aviation

Electrical Engineering

Computer Sciences

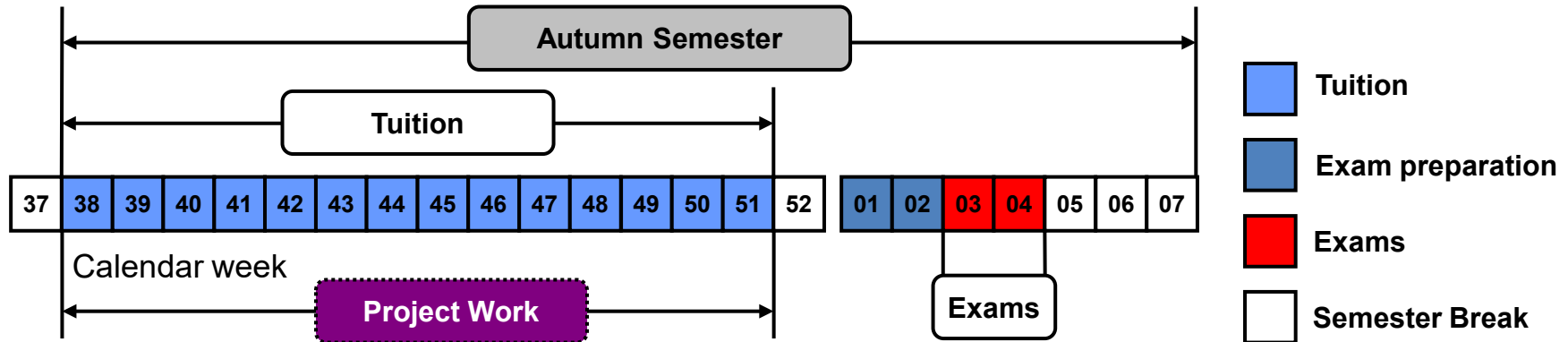
Mechanical Engineering (incl. Materials and Process Engineering)

Systems Engineering

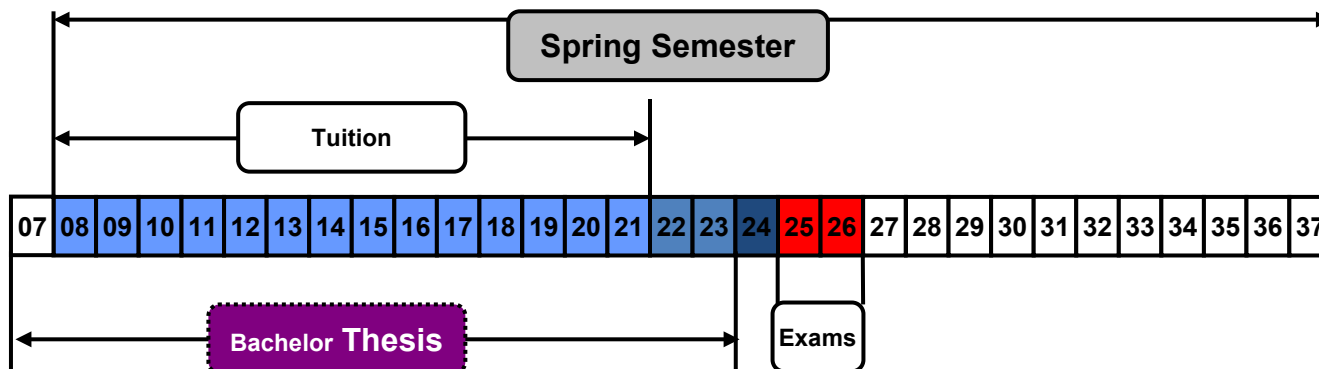
Engineering and Management

Master of Science in Engineering *

Our Academic Year



- For an exchange semester we recommend the Autumn Semester
- Project work with a duration of 2 - 3 month is feasible «all year»
- If required, we offer online exams so that you can leave before x-mas



Study in Switzerland

Costs of living, Scholarship & Accommodation

On the average a student needs 1'500 CHF per month Living in Switzerland | ZHAW School of Engineering

Students of an Erasmus partner will receive automatically the SEMP grants

On top exchange Students can apply for the “SoE” **Scholarship**

for students from overseas: max. CHF 3'000

for students from Europe: max. CHF 2'000

The student accommodation cooperative WOKO offers reasonably priced accommodation Student accommodation

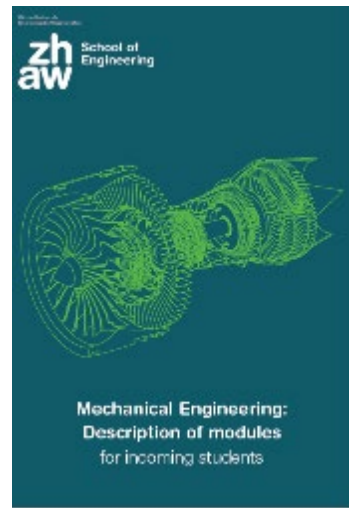
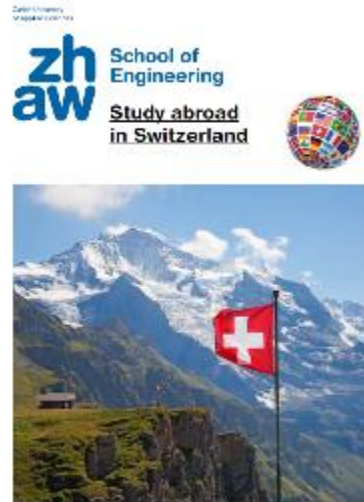
Visa, Residence and Work Permit → Student visa



www.myswitzerland.com/de/winterthur.html



Further information



Find the information you need in:

- the internet (e.g. Experience Reports Incoming Students)
- the flyer for exchange students
- the fact sheet School of Engineering
- the detailed module descriptions



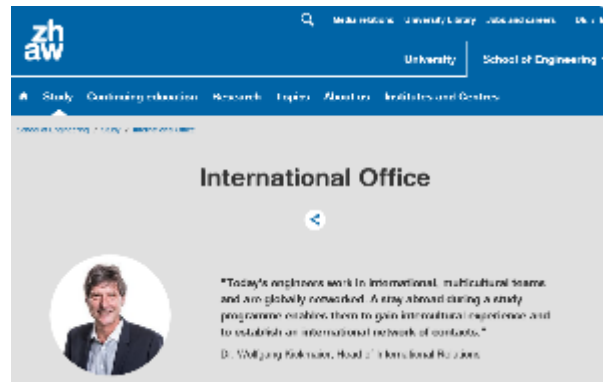
FACTSHEET - INCOMING EXCHANGE

ZHAW Zurich University of Applied Sciences
SCHOOL OF ENGINEERING

Winterthur, Switzerland



The ZHAW School of Engineering as one of the leading Engineering Faculties in Switzerland emphasizes topics which will be relevant in the future. Our 13 modules and centers guarantee superior-quality education, research and development with an emphasis on the areas of energy, mobility, information and health.



zhaw School of Engineering

University School of Engineering

Study Continuing education Research Topics Alumni Institutes and Centers

International Office

Today's engineers work in international, multicultural teams and are globally networked. A stay abroad during a study programme enables them to gain international experience and to establish an international network of contacts.

Dr. Wolfgang Rodemann, Head of International Relations



zhaw Zurich University of Applied Sciences

School of Engineering

zhaw Zurich University of Applied Sciences

School of Engineering



Module	ECTS	Prerequisites
Module 1: Introduction to Engineering	5	
Module 2: Engineering Design	5	Module 1
Module 3: Engineering Materials	5	Module 1
Module 4: Engineering Mechanics	5	Module 1
Module 5: Engineering Thermodynamics	5	Module 1
Module 6: Engineering Fluids	5	Module 1
Module 7: Engineering Solids	5	Module 1
Module 8: Engineering Systems	5	Module 1
Module 9: Engineering Management	5	Module 1
Module 10: Engineering Ethics	5	Module 1
Module 11: Engineering Innovation	5	Module 1
Module 12: Engineering Sustainability	5	Module 1
Module 13: Engineering Research	5	Module 1

Why Switzerland

Why School of Engineering - in a nutshell

- Attractive touristic place in the centre of Europe
- Central location in the ZH-metropolitan area
- We educate 20% of the Engineers in CH
- Broad spectrum of engineering disciplines
- English taught modules (Bachelor)
the master English modules only
- Project work based on real demands of the
industrial partners
- Small classes and close interaction with the
lectures - research based education
- Scholarships in addition to Erasmus/SEMP
grants



QUALITY
EXCELLENCE
ORGANISATION
PERFECTION
CORRECTNESS
RELIABILITY
WORK /
PERFORMANCE
PRAGMATISM
SAFETY
PUNCTUALITY
HARMONY
CONSENSUS
SENSE OF
FRIENDSHIP

Selected Links SoE Videos

General - School of Engineering <https://www.youtube.com/watch?v=joHlbrmdpvc>

Bachelor's degrees

Aeronautical Engineering	https://www.youtube.com/watch?v=twPV6-SL_Es
Data Science (in german)	https://youtu.be/0s55DPk4Qk4
Energy and Environmental Engineering	https://www.youtube.com/watch?v=XMvZuB-jWIA
Mechanical Engineering	https://www.youtube.com/watch?v=ie0vRIX_8uc
Industrial Engineering	https://www.youtube.com/watch?v=K5cUz-3zCi0
Information Technology	https://www.youtube.com/watch?v=iN2uKgMrQRc
System Engineering	https://www.youtube.com/watch?v=_ebba3o14cw
Transportation Systems	https://www.youtube.com/watch?v=RuWQCK7A8rc

Master of Science in Engineering in Engineering

<https://www.youtube.com/watch?v=en6QhlcyDdU>

Switzerland has a lot to offer...

Unternehmens-
für Ingenieurwissenschaften

zhaw School of
Engineering



Consult: www.myswitzerland.com

Erdbauingenieur
für Ingenieurbüros

zhaw School of Engineering



Source images <https://pixabay.com/de/images/search/schweiz> and www.myswitzerland.com

Beautiful natural landscapes...





“Tail-coat week”

Unternehmen
für Ingenieure & Techniker

zhaw School of Engineering



Technical Night

University of Applied Sciences
Zürcher Hochschule für Angewandte Wissenschaften

zhaw School of Engineering



What to do in Switzerland? Spring/Summer

SECHSELÄUTEN



HIKING



"BADI"



STREET PARADE



ITALIAN
SWITZERLAND



RIVER RAFTING



What to do in Switzerland? Fall/Winter

RHINE FALLS



WINE TASTING



RACLETTE PARTY



FONDUE



WINTER SPORTS



CHRISTMAS MARKET



Clichés about Switzerland

Chocolate, watches, banks, money, mountains, traditions, cheese
Hope you get the other, real Switzerland



School of Engineering

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Engineering



School of Engineering

Universität Zürich
für Ingenieurwissenschaften

zhaw School of Engineering

