

# Welcome to the Lucerne University of Applied Sciences and Arts

## School of Computer Science and Information Technology

Experiencing a digital culture

**Dr. Murali Krishna Penmetsa**  
Head of Global Recruitment





# Content

1. Switzerland
2. Lucerne University of Applied Sciences and Arts
3. School of Computer Science and Information Technology
4. Masters study program
5. Costs of studies
6. Admission process





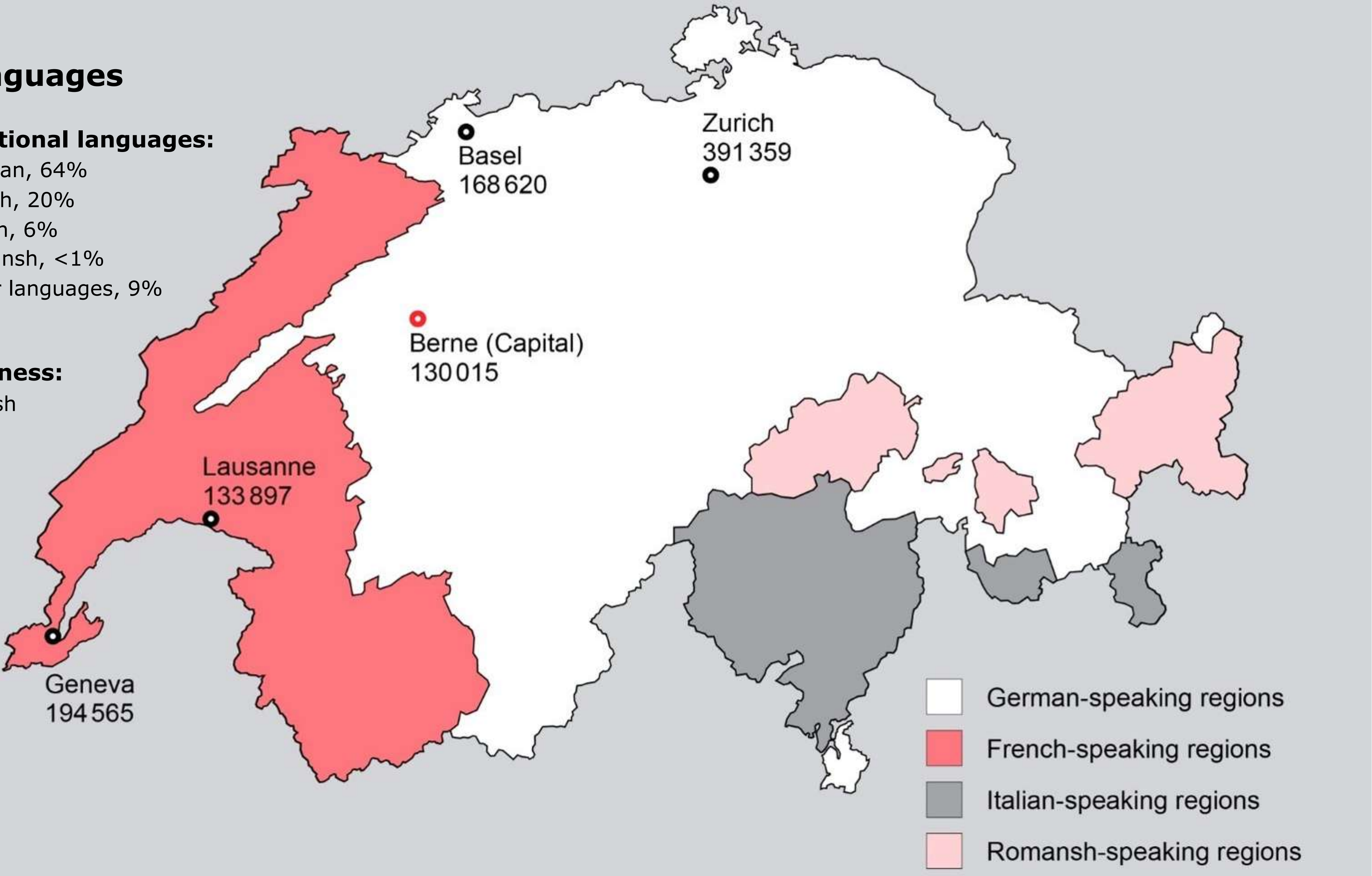
# Languages

## 4 national languages:

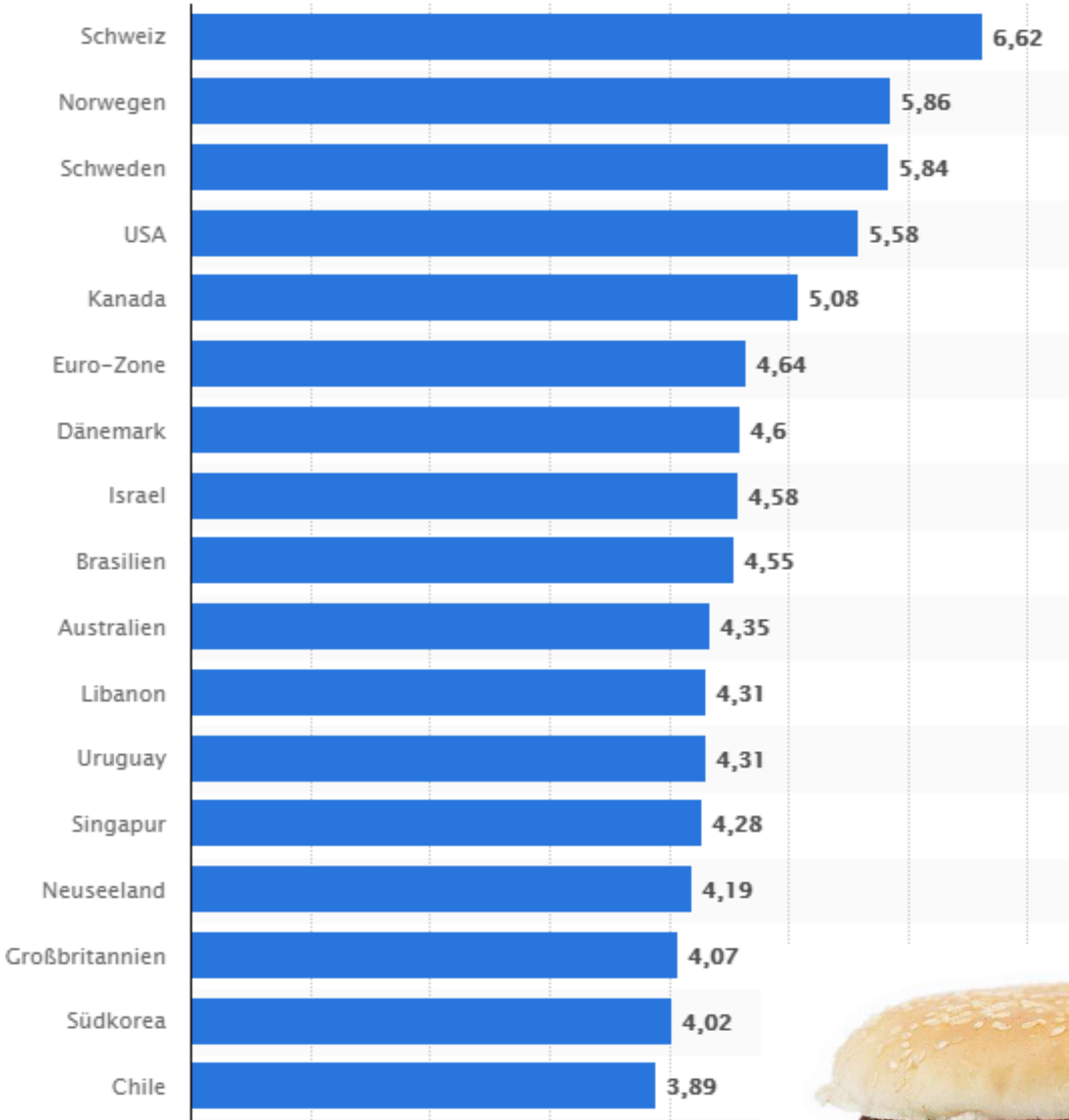
German, 64%  
French, 20%  
Italian, 6%  
Romansh, <1%  
Other languages, 9%

## Business:

English

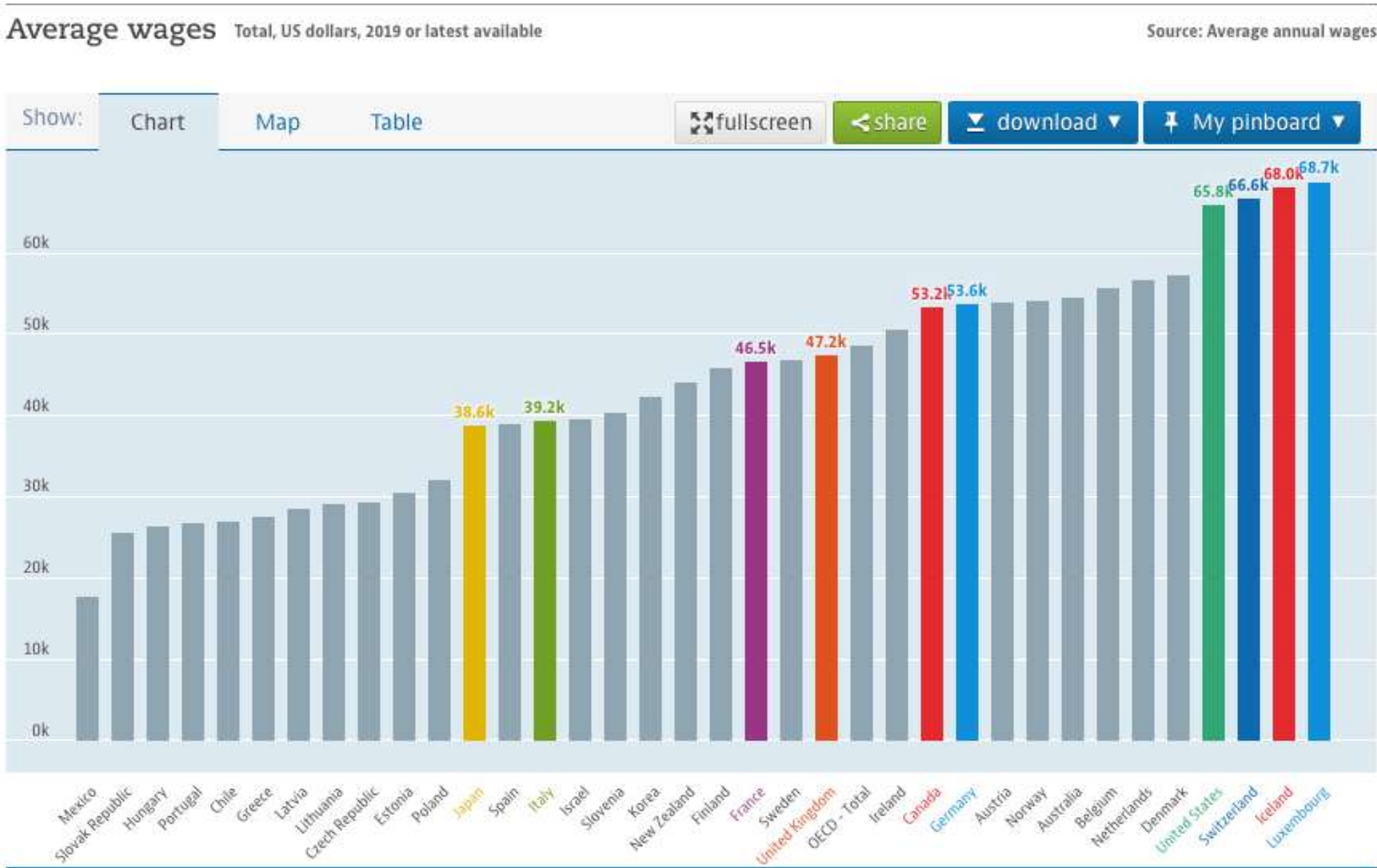


# Big Mac Index 2019: Price of 1 Big Mac in USD



Source: Statista, 28.07.2019

# Highest salaries globally : Where does Switzerland stands ?



Source: OECD 28.03.2021



# Global Innovation Index 2021

Source:  
[https://www.globalinnovationindex.org/userfiles/file/reportpdf/GII-2021/GII\\_at\\_a\\_glance.pdf](https://www.globalinnovationindex.org/userfiles/file/reportpdf/GII-2021/GII_at_a_glance.pdf) (20.05.2022)

## Global Innovation Index 2021 rankings

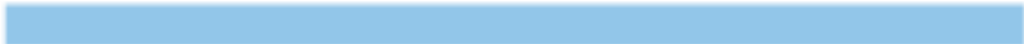



















GII rank	Economy	Score	Income group rank	Region rank
1	Switzerland	65.5	1	1
2	Sweden	63.1	2	2
3	United States of America	61.3	3	1
4	United Kingdom	59.8	4	3
5	Republic of Korea	59.3	5	1
6	Netherlands	58.6	6	4
7	Finland	58.4	7	5
8	Singapore	57.8	8	2
9	Denmark	57.3	9	6
10	Germany	57.3	10	7
11	France	55.0	11	8
12	China	54.8	1	3
13	Japan	54.5	12	4
14	Hong Kong, China	53.7	13	5
15	Israel	53.4	14	1
16	Canada	53.1	15	2
17	Iceland	51.8	16	9
18	Austria	50.9	17	10
19	Ireland	50.7	18	11
20	Norway	50.4	19	12
21	Estonia	49.9	20	13
22	Belgium	49.2	21	14
23	Luxembourg	49.0	22	15
24	Czech Republic	49.0	23	16
25	Australia	48.3	24	6
26	New Zealand	47.5	25	7
27	Malta	47.1	26	17
28	Cyprus	46.7	27	2
29	Italy	45.7	28	18
30	Spain	45.4	29	19

# Exceptional competitiveness 2022

The World Competitiveness 2022 Rankings

Source: The World Competitiveness Report 2022,  
<https://www.imd.org/centers/world-competitiveness-center/rankings/world-competitiveness/>  
(02.07.2022)

## 2022 COMPETITIVENESS RANKING

			Score		
01	Denmark		100.00	↗	2
02	Switzerland		98.92	↘	1
03	Singapore		98.11	↗	2
04	Sweden		97.71	↘	2
05	Hong Kong SAR		94.89	↗	2
06	Netherlands		94.29	↘	2
07	Taiwan, China		93.13	↗	1
08	Finland		93.04	↗	3
09	Norway		92.96	↘	3
10	USA		89.88	-	-
11	Ireland		89.52	↗	2
12	UAE		88.67	↘	3
13	Luxembourg		87.77	↘	1
14	Canada		87.23	-	-
15	Germany		85.68	-	-
16	Iceland		85.38	↗	5
17	China		83.94	↘	1
18	Qatar		83.85	↘	1
19	Australia		82.56	↗	3
20	Austria		80.42	↘	1



# Global Happiness Index 2021

Country name	Rank by 2020 score	Score, 2020 (95pct conf. interval)
Finland	1	7.889 (7.784-7.995)
Iceland	2	7.575 (7.405-7.746)
Denmark	3	7.515 (7.388-7.642)
Switzerland	4	7.508 (7.379-7.638)
Netherlands	5	7.504 (7.412-7.597)
Sweden	6	7.314 (7.182-7.447)
Germany	7	7.312 (7.163-7.460)
Norway	8	7.290 (7.160-7.421)
New Zealand	9	7.257 (7.124-7.391)
Austria	10	7.213 (7.080-7.347)
Israel*	11	7.195 (7.072-7.318)
Australia	12	7.137 (6.984-7.291)
Ireland	13	7.035 (6.903-7.166)
United States	14	7.028 (6.859-7.197)
Canada	15	7.025 (6.884-7.166)
Czech Republic*	16	6.897 (6.743-7.051)
Belgium	17	6.839 (6.727-6.950)
United Kingdom	18	6.798 (6.671-6.925)
Taiwan Province of China	19	6.751 (6.619-6.883)
France	20	6.714 (6.601-6.827)

Source: <https://worldhappiness.report/ed/2021/>  
(02.07.2022)

# Safest Countries : COVID 19

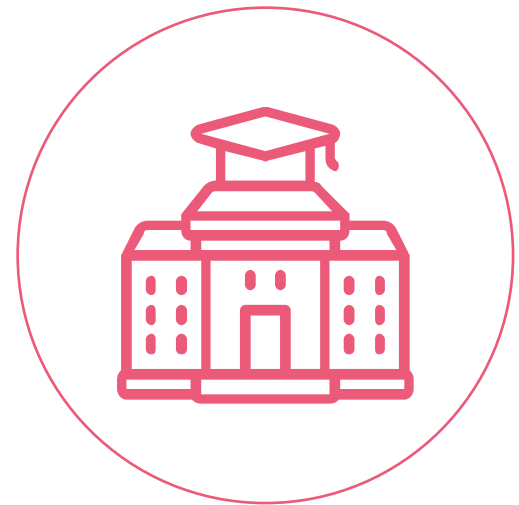


Source: <https://www.forbes.com/sites/johnkoetsier/2020/06/05/the-100-safest-countries-in-the-world-for-covid-19/#1aacb23168c5> (28.03.2021)



# High-profile

## The Swiss university education landscape



**ten universities**

**two ETHs**

(Federal Institutes of Technology)



**eight public** universities of applied sciences

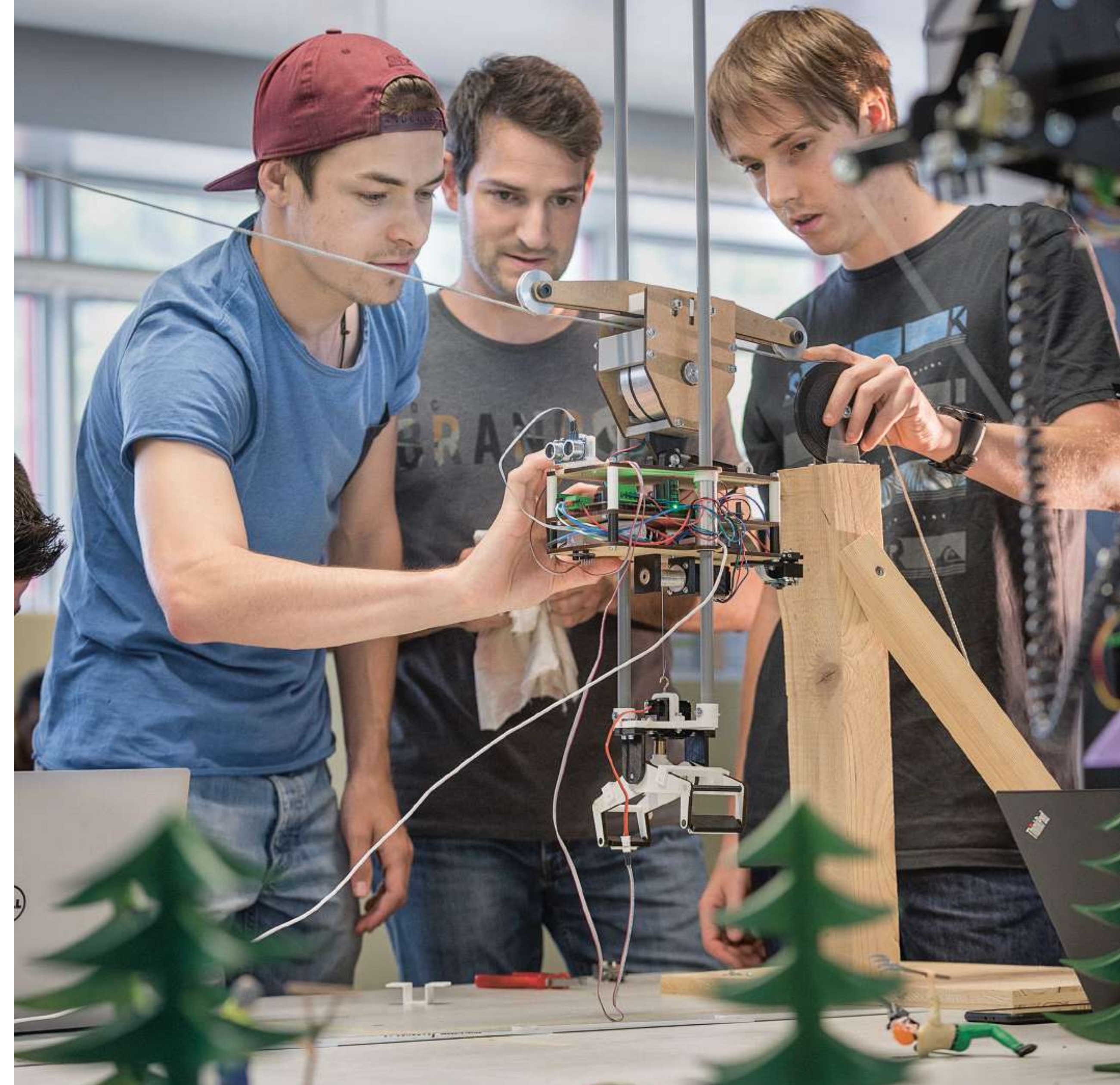
**one private** university of applied sciences



**270,475 students**

about a third of whom study at a Swiss university of applied sciences

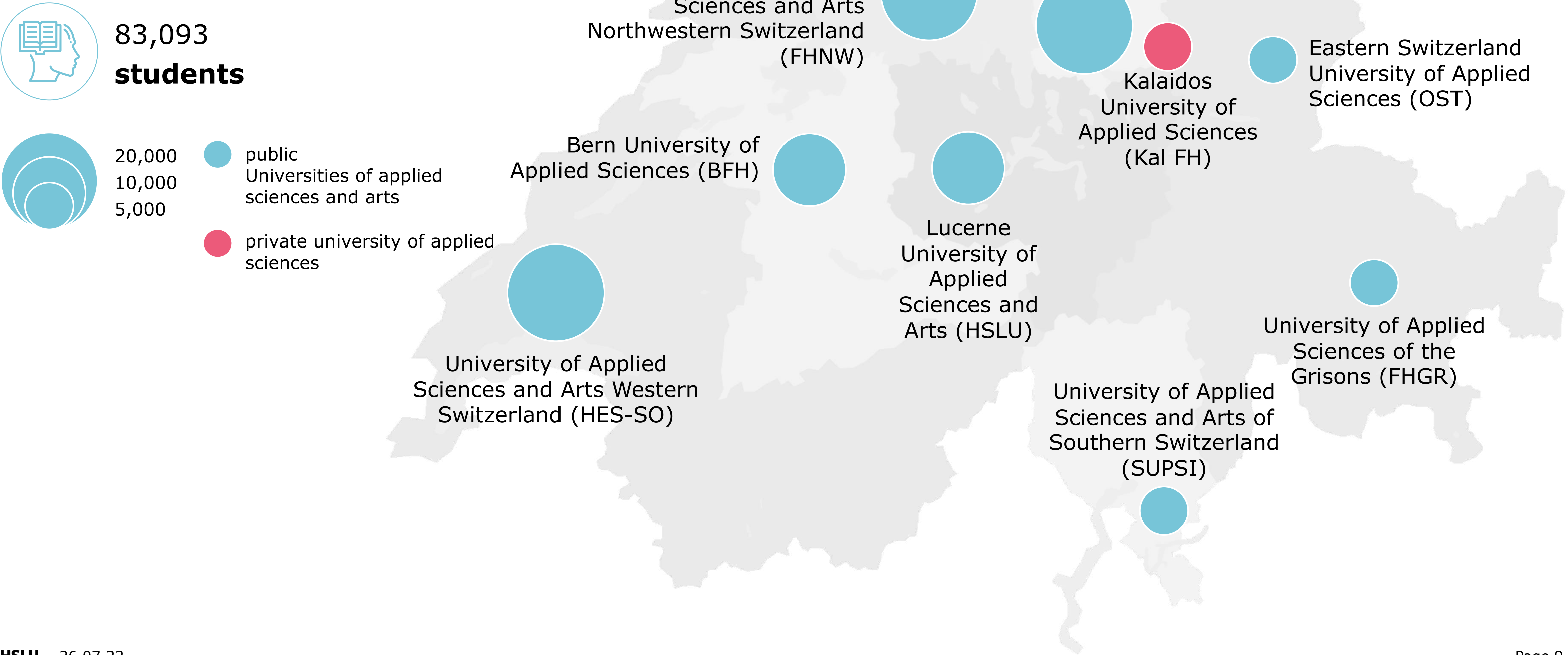
as of 2021





# Swiss universities of applied sciences

## Locations and size



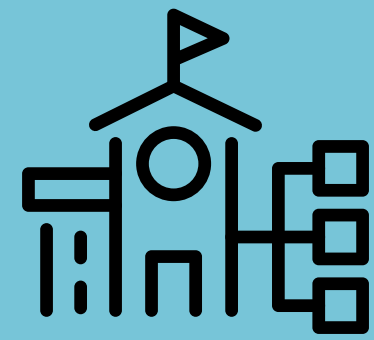


# 2020

## Facts and figures

6

Schools



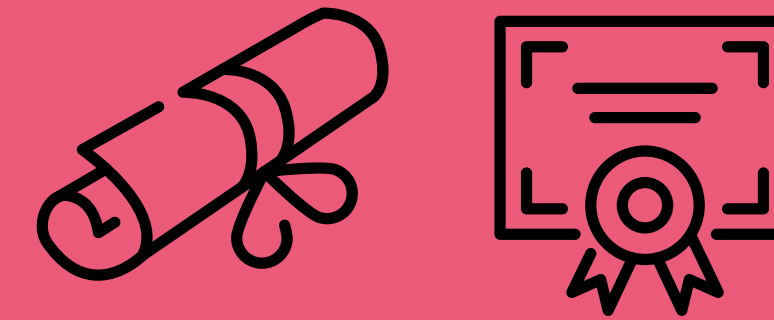
1,903

**employees**  
of whom 816 are  
lecturers



39

**bachelor's** programs

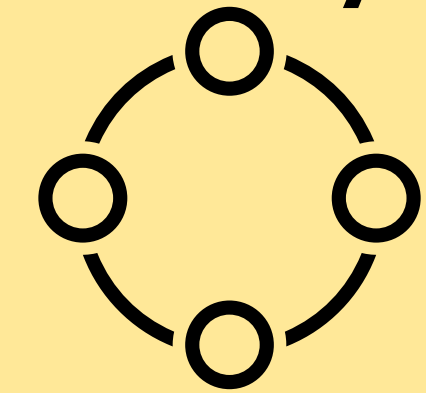


16

**master's** programs

4

**areas of mandated  
activity**



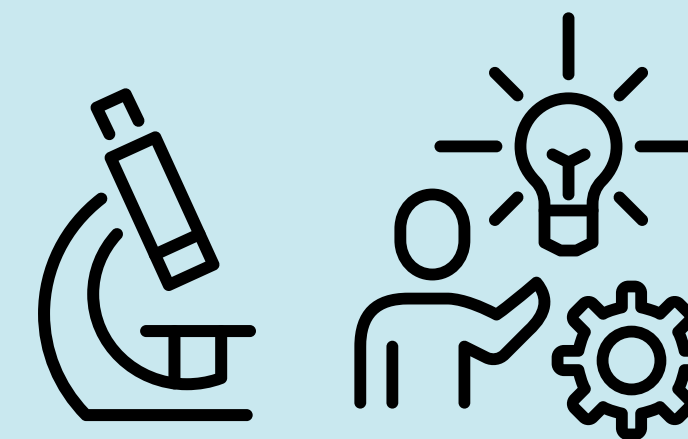
257

**MAS, DAS, CAS  
programs**  
(post-graduate courses)



378

**projects launched** in the field of  
research and development



Education, continuing  
and executive education,  
research and  
development, services



# The Six Schools of the Lucerne University of Applied Sciences and Arts

## Engineering and Architecture

founded 1958



## Business

founded 1971



## Computer Science and Information Technology

founded 2016



## Social Work

founded 1918



## Art and Design

founded 1877



## Music

founded 1942

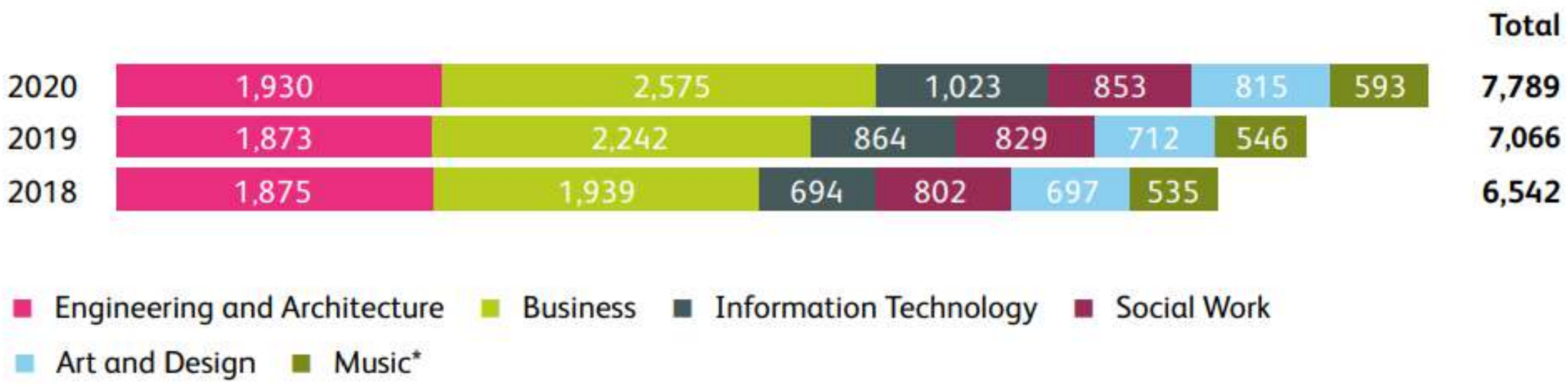




# Studying with a practical focus in the heart of Switzerland

## Education

700 MORE STUDENTS THAN IN THE PREVIOUS YEAR



## Research

HIGHLY VALUED RESEARCH AND SERVICE PARTNER

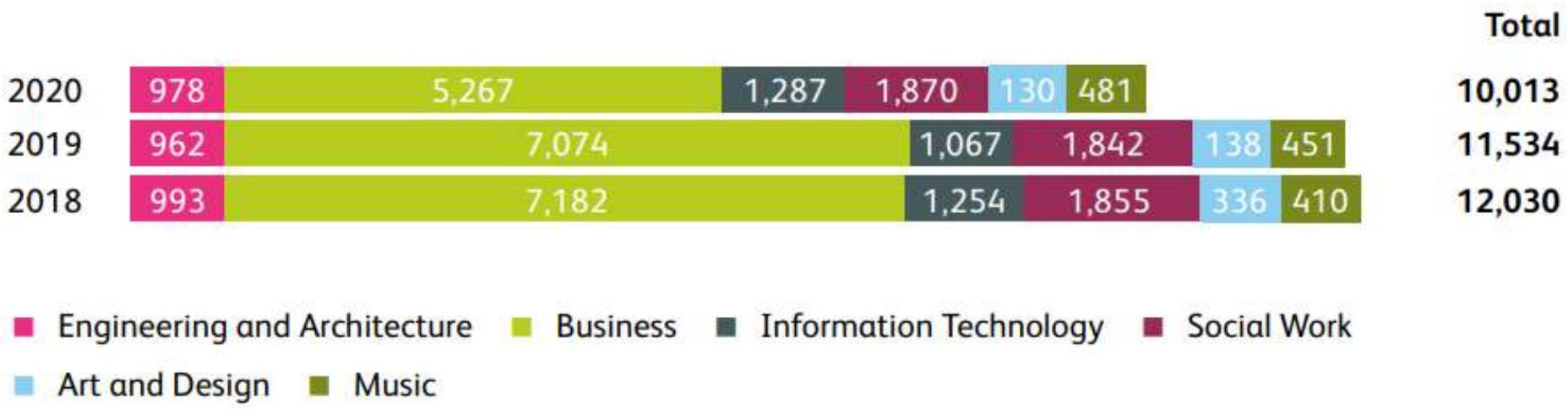
	2020	2019	2018
New projects	378	498	459
funded through Innosuisse or SNSF	88	70	58

In 2020, 378 research and development projects were initiated. Among the notable external funders were Innosuisse, the Swiss National Science Foundation SNSF, the Federal Government and various EU programmes. 279 new research projects were launched with the help of external funding from partners in Switzerland and abroad. The revenue generated through research is roughly CHF 56 million.

378 new research projects

## Continuing education

A LEADING UNIVERSITY OF APPLIED SCIENCES IN THE FIELD OF CONTINUING EDUCATION





# School of Computer Science and Information Technology

The broadest range of Information Technology education programs under one roof.

Bachelor's and master's programs, applied research and development as well as continuing and executive education programs in Information Technology and Business Information Technology on a single campus.







## **Research and services**

Benefiting from applied Computer Science and Information Technology research

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Artificial Intelligence

---

Augmented and Virtual Reality

---

Blockchain and Smart Contracts

---

Data Science and Big Data

---

Digital Business

---

Information Security and Privacy

---

Internet of Things

---

Systems and Software

---



# Cooperations and memberships



Switzerland Innovation Park Central



Crypto Valley Association  
(CVA)



Siemens



Roche Diagnostics International



EON Realities



Digital Community association



DLT Education  
Consortium  
association



Data Privacy  
Community  
association



Cardossier  
association



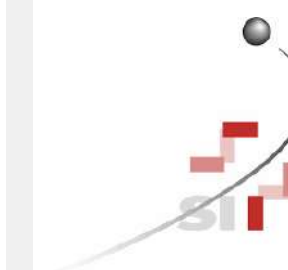
Swiss Digital  
Law Community



Alumni Organization Information  
Security HSLU



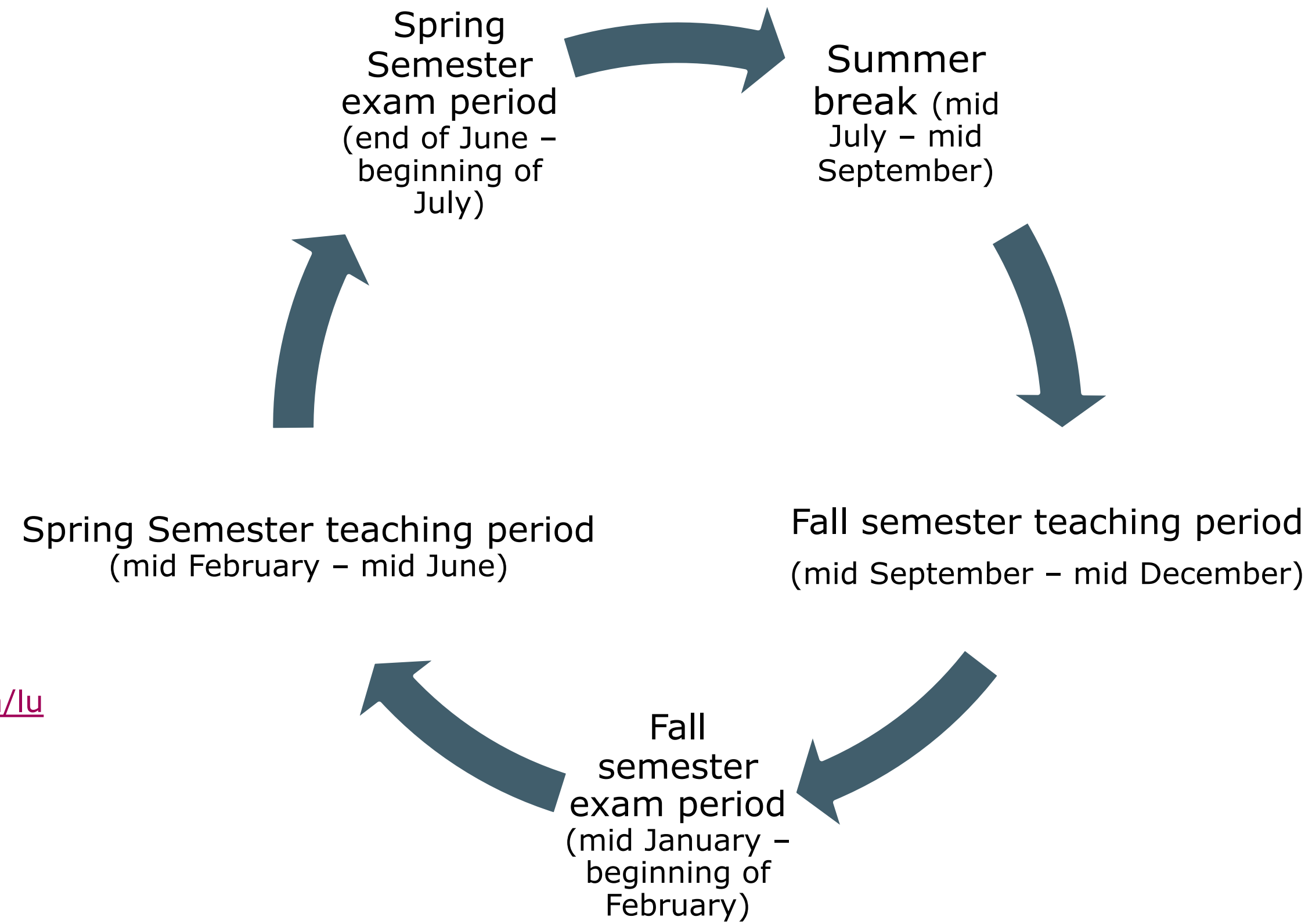
Digital Identity and Data  
Sovereignty Association



Netclose - SI Specialist Group  
Networks and Cloud Services



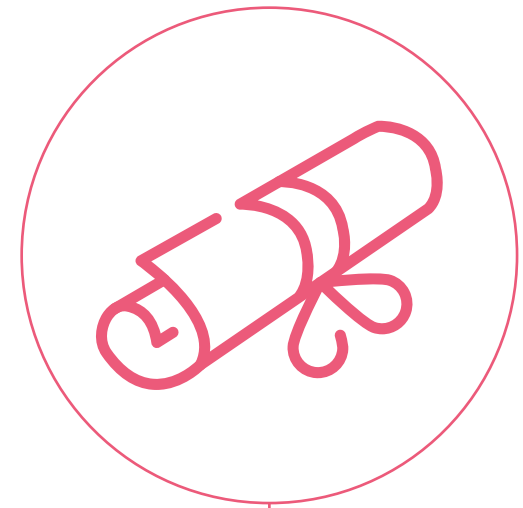
# Academic year



Academic Calendar:  
<https://www.hslu.ch/en/luerne-school-of-information-technology/degree-programs/termine-studienjahr/>  
Hochschule Luzern



# Programs



## Bachelor's

- Artificial Intelligence and Machine Learning
- Digital Ideation
- Computer Science and Information Technology
- Information and Cyber Security
- **International IT Management**
- Business Information Technology
- Mobility, Data Science and Economics  
(enrollment via School of Business)



## Master's

- Engineering
- Business Information Technology
- Digital Ideation (enrollment via School of Art and Design)
- Media and IT Teaching and Learning Methods  
(enrollment via Schwyz University of Teacher Education)
- **Information Technologies, Digitalization and Sustainability**
- Music and Digital Creation  
(enrollment via School of Music)



# Master's



## Information Technologies, Digitalization and Sustainability

- **Time model**
  - Full time
- **Commencement of studies**
  - September
- **Place of study**
  - Rotkreuz
- **Semester abroad**
  - 2-3 compulsory semesters (dual/double degree)





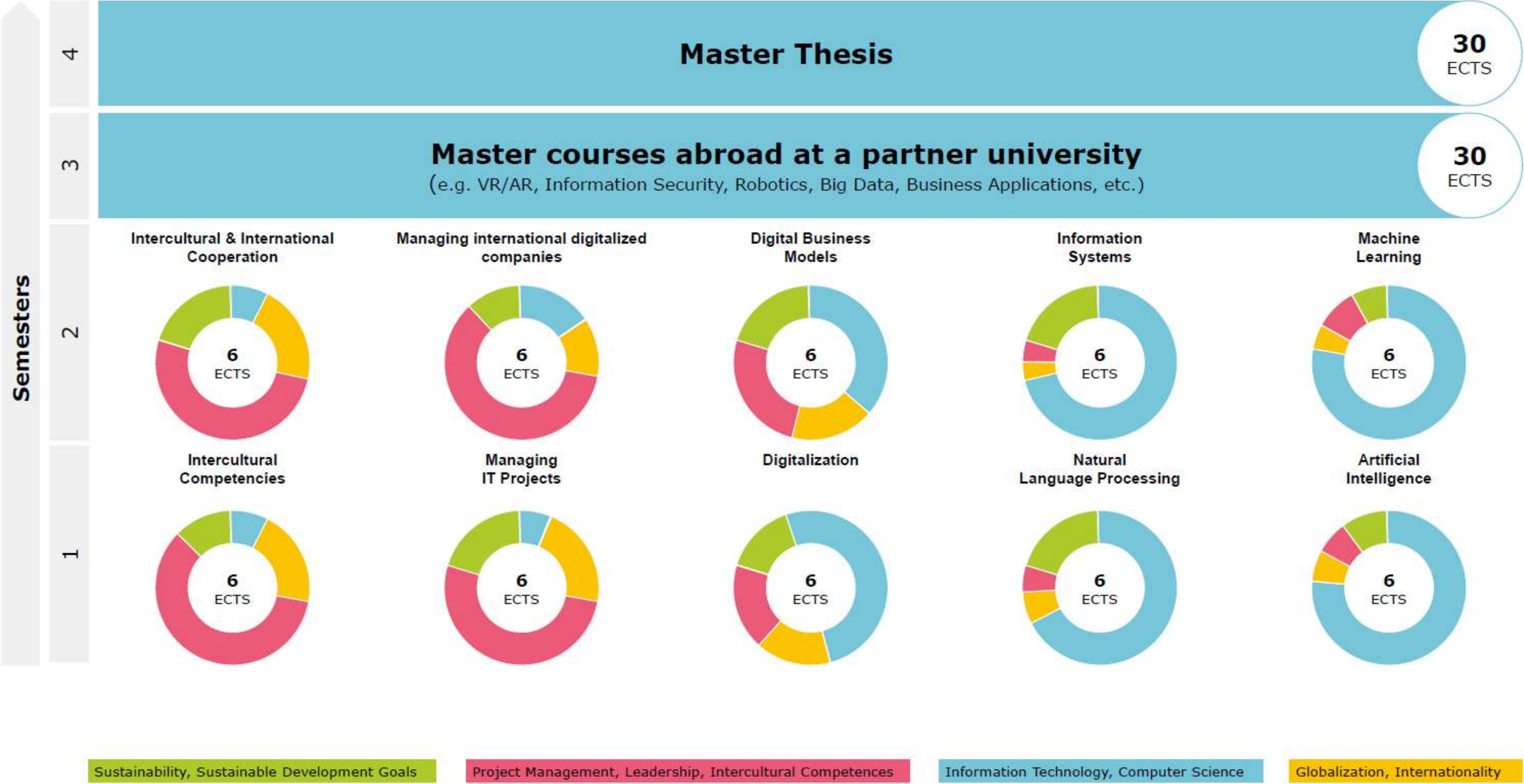
# Philosophy in education:

- High level of flexibility:  
33% to 50% of the courses in the degree programs can be chosen by the students themselves.
- Breaking new ground:  
Developing study programs that are innovative, future-oriented and interdisciplinary and offer our graduates excellent career prospects.
- Computer science is global:  
We encourage our students from all degree programs to spend part of their studies abroad. This opens them up to new horizons and perspectives.





# Course overview: MSc IT, Digitalization and Sustainability





# Overview of contact teaching, teaching schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
08:30 - 11:30						
12:30 - 15:30						
16:00 - 19:00						



# Admission Requirements

Bachelor's degree in	Grade (GPA)	Language Skills	Programming skills	Mathematics and statistical skills
<ul style="list-style-type: none"> <li>– BSc Information Technology</li> <li>– BSc Computer Science</li> <li>– BSc International IT Management</li> <li>– BSc Business Information Technology</li> <li>– BSc Engineering</li> <li>– other similar bachelor degree programs are possible («sur dossier»)</li> </ul>	<ul style="list-style-type: none"> <li>– Swiss Students: min. 5.0</li> <li>– International Students: GPA min. 3.5</li> </ul>	<ul style="list-style-type: none"> <li>– C1 Level in English corresponding to the common European Framework of Reference for Languages</li> <li>– No German language skills needed</li> </ul>	<ul style="list-style-type: none"> <li>– at least 9 ECTS credits in programming (JAVA; C#; Python)</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>– Compulsory preliminary MOOC in programming</li> </ul>	<ul style="list-style-type: none"> <li>– at least 9 ECTS credits in linear mathematics, statistics</li> </ul> <p>or</p> <ul style="list-style-type: none"> <li>– Compulsory preliminary MOOC in mathematics, statistics</li> </ul>



# Cost of Studies and Students Personal Expenses

Study fees to university	Periodicity	Amount (in CHF)
1 <sup>st</sup> semester	Offer of admission letter	1'100
2 <sup>nd</sup> semester	Semester start	1'100
3 <sup>rd</sup> semester	Semester start	2'500
4 <sup>th</sup> semester	Semester start	1'100
<b>Total cost approx. (without Books/teaching material)</b>	<b>2 years (4 semesters)</b>	<b>5,800</b>
Application fee	During submission of application on website	200

Cost of your personal expenses in Switzerland	Periodicity	Amount (in CHF)
Accommodation	monthly	641
Groceries	monthly	200 - 400
Public transport	monthly	0
Compulsory health insurance for foreigners	monthly	65 - 180
Total monthly cost approx.	monthly	906 – 1221
Third party liability insurance(Optional)	Yearly	120 – 140



# Admission requirements and process

Eligibility criteria :

Academics ( Good grades) : Top students in class + Sur dossier(Work experience etc).

English skills : Minimum of C1 level or equivalent.

Sufficient funds : University administrative fee (CHF 5800 ) + Living expenses (24,000 CHF)+ Visa documentation.

Personality.

Highly motivation levels.

## Admission process :





## Contact Information

Lucerne University of Applied Sciences and Arts  
**School of Computer Science and Information  
Technology**



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Head of Global Recruitment

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6343 Rotkreuz  
Switzerland

<https://www.hslu.ch/de-ch/informatik>

[https://www.hslu.ch/en/lucerne-school-of-information-  
technology/](https://www.hslu.ch/en/lucerne-school-of-information-technology/)



Thank you very much  
for your interest

**Lucerne School of Computer Science and Information Technology**

Trendsetter / digitalization / interconnectedness / internationalization / visibility



# Student Housing

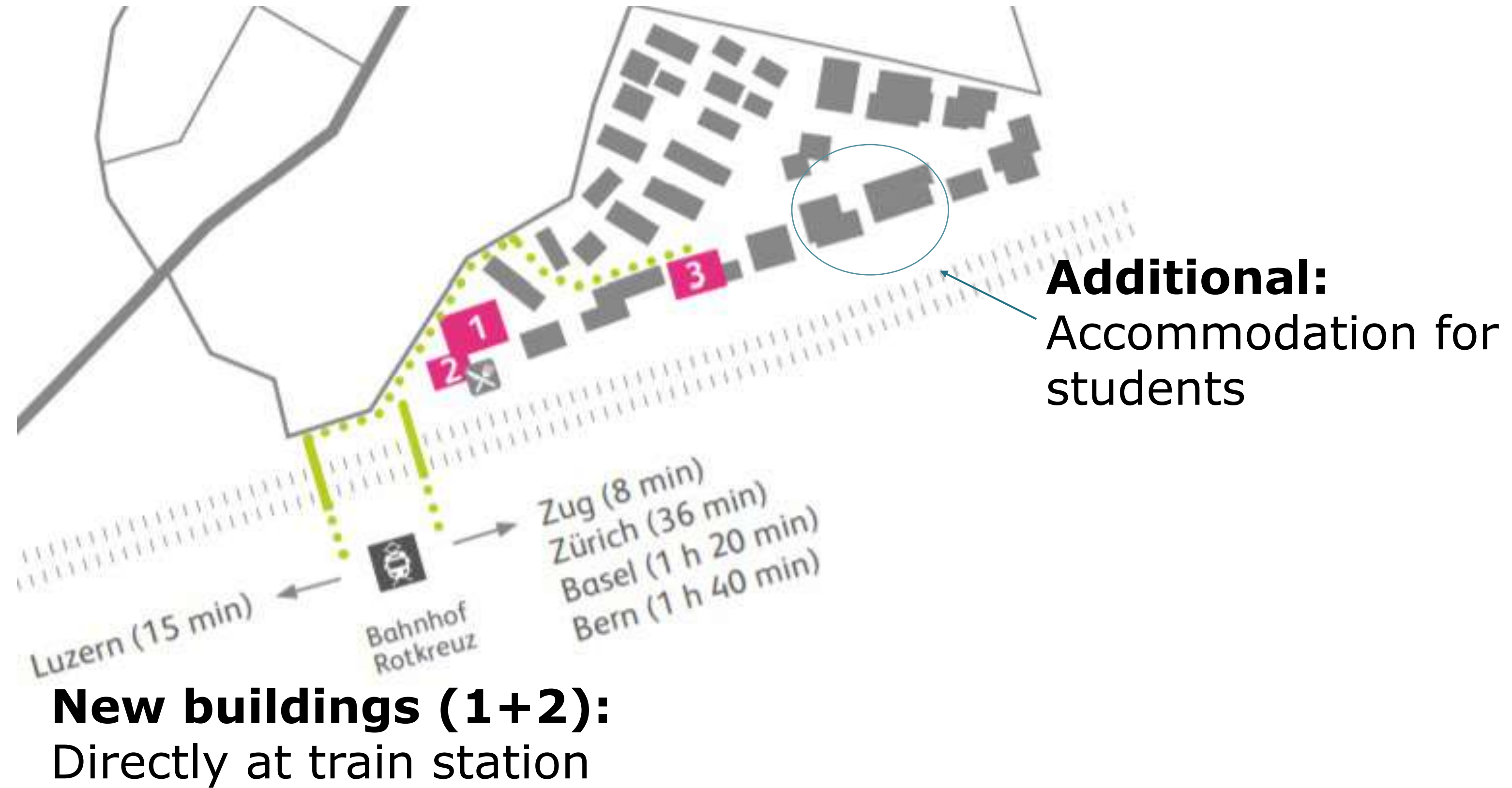
The Lucerne University of Applied Sciences and Arts offers accommodation at several places in and around Lucerne. More information can be found [online](#).

The School of IT has it's own accommodation facilities on campus in Rotkreuz.





# Student Housing





## Student Housing : Campus Zug-Rotkreuz (Suurstoffi 18a/b)





# Student Housing : Campus Zug-Rotkreuz (Suurstoffi 12a)

