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

Languages

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

Business:
English

Zurich
391 359

Basel
168 620

Berne (Capital)
130 015

Lausanne
133 897

Geneva
194 565

German-speaking regions
French-speaking regions
Italian-speaking regions
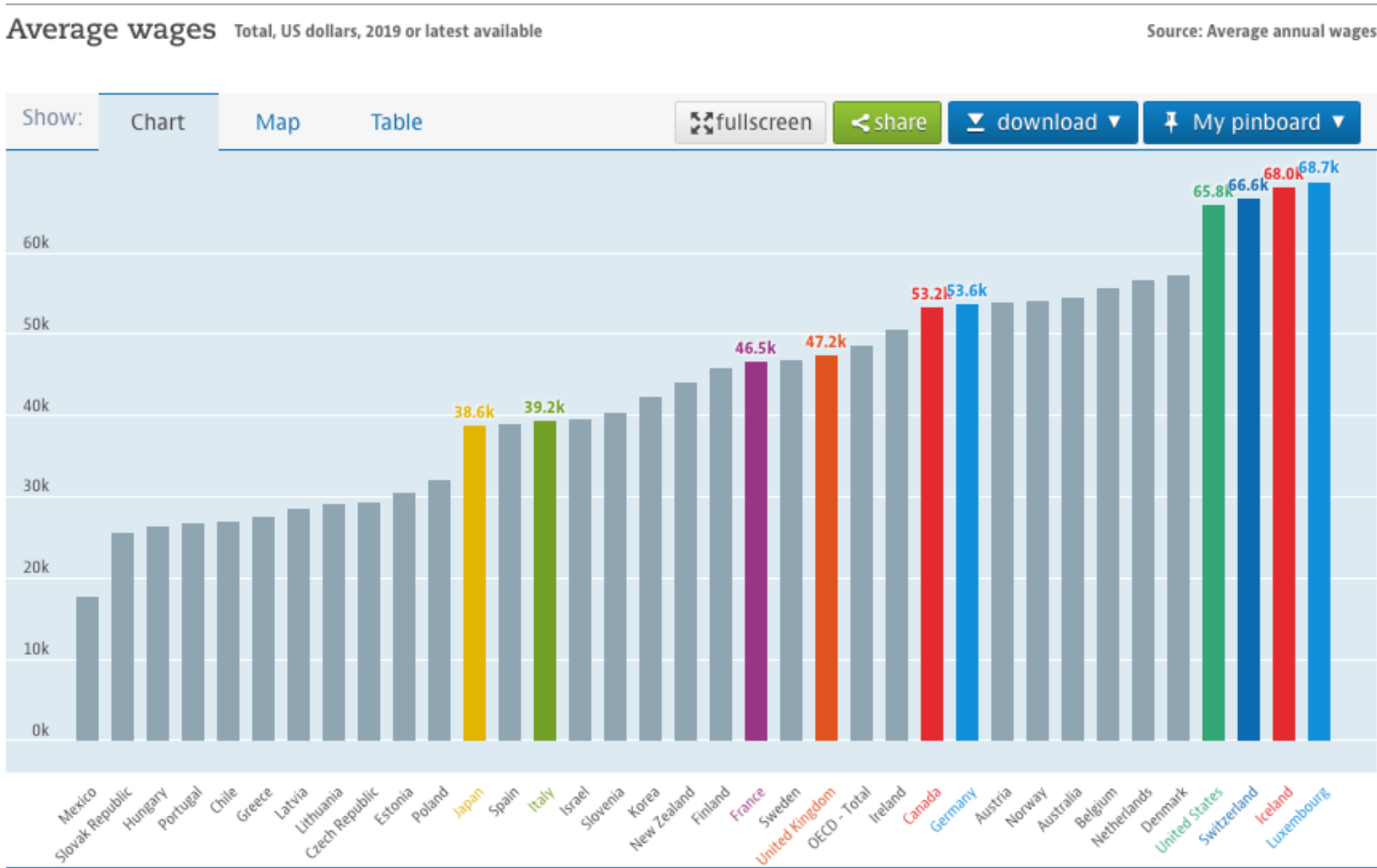Romansh-speaking regions
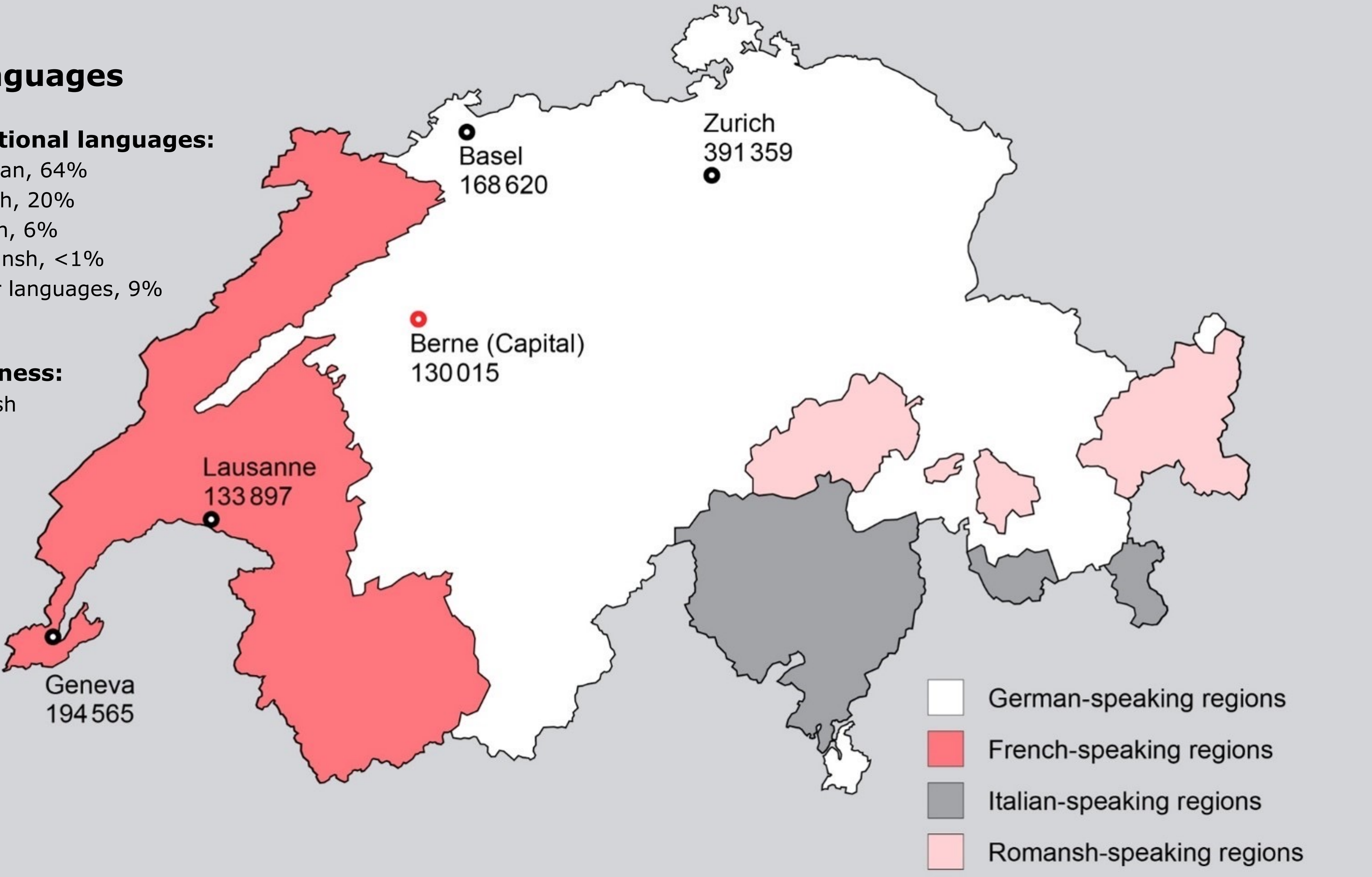
Big Mac Index 2019:
Price of 1 Big Mac in USD

Highest salaries globally :
Where does Switzerland stands ?

Schweiz	6,62
Norwegen	5,86
Schweden	5,84
USA	5,58
Kanada	5,08
Euro-Zone	4,64
Dänemark	4,6
Israel	4,58
Brasilien	4,55
Australien	4,35
Libanon	4,31
Uruguay	4,31
Singapur	4,28
Neuseeland	4,19
Großbritannien	4,07
Südkorea	4,02
Chile	3,89

Average wages Total, US dollars, 2019 or latest available   Source: Average annual wages

Show: Chart   Map   Table   fullscreen   share   download ▼   My pinboard ▼

65.8k 66.6k 68.0k 68.7k
53.2k 53.6k
46.5k 47.2k
38.6k 39.2k

Source: OECD 28.03.2021

Source: Statista, 28.07.2019
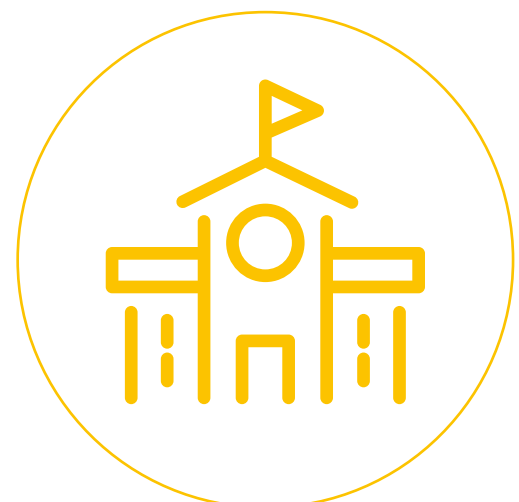
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4

High-profile
The Swiss university education landscape

ten universities

two ETHs

(Federal Institutes of Technology)

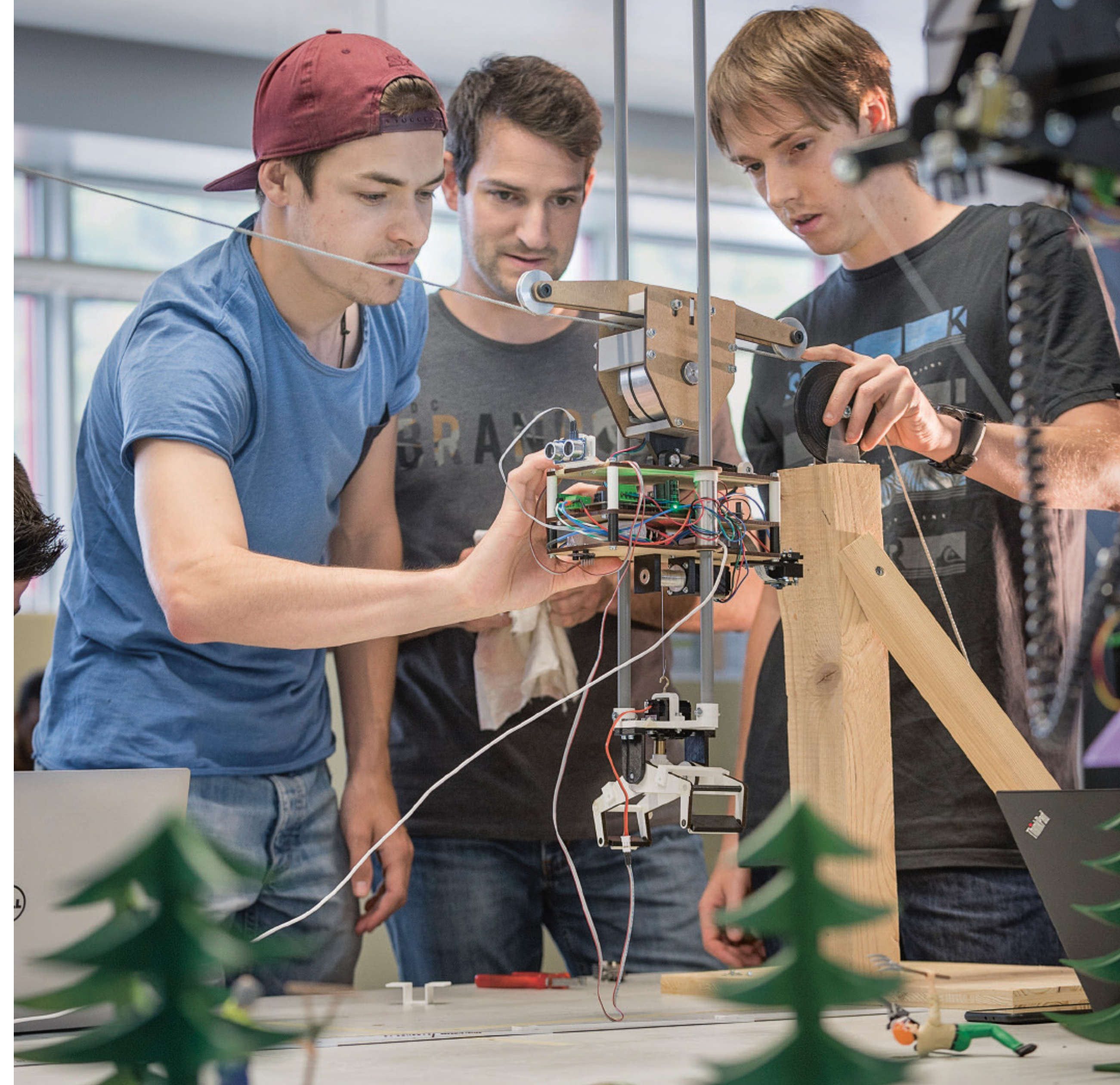**eight public** universities of applied sciences

one private university of applied sciences
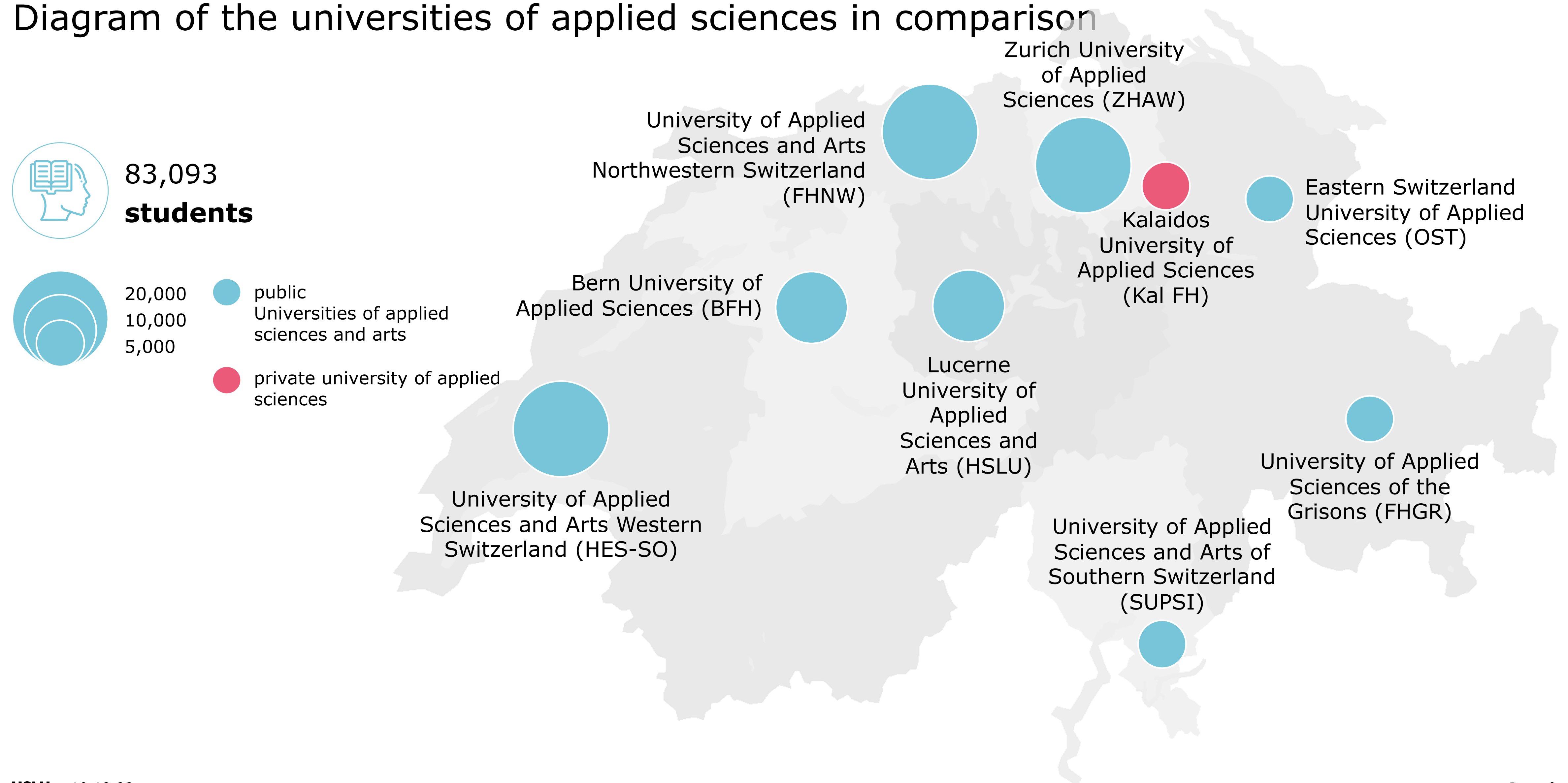
270,475 students

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

as of 2021

Swiss universities of applied sciences
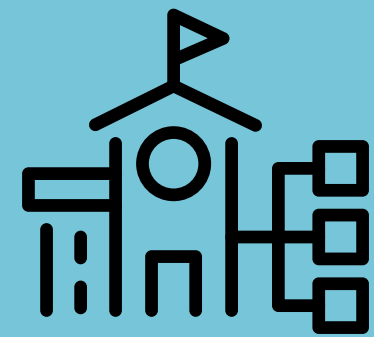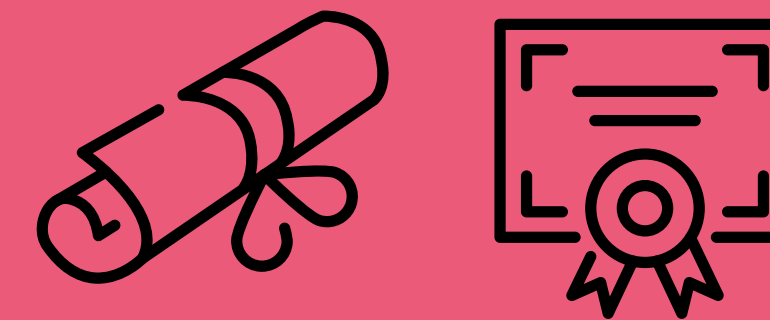Diagram of the universities of applied sciences in comparison

83,093
students

20,000
10,000
5,000

public
Universities of applied
sciences and arts

private university of applied
sciences

University of Applied
Sciences and Arts
Northwestern Switzerland
(FHNW)

Zurich University
of Applied
Sciences (ZHAW)

Eastern Switzerland
University of Applied
Sciences (OST)

Kalaidos
University of
Applied Sciences
(Kal FH)

Bern University of
Applied Sciences (BFH)

Lucerne
University of
Applied
Sciences and
Arts (HSLU)

University of Applied
Sciences and Arts Western
Switzerland (HES-SO)

University of Applied
Sciences and Arts of
Southern Switzerland
(SUPSI)

University of Applied
Sciences of the
Grisons (FHGR)

2020
Facts and figures

6
Schools

257
MAS, DAS, CAS programs
(post-graduate courses)

1,903
employees
of whom 816 are lecturers

378
projects launched in the field of research and development

39
bachelor's programs

16
master's programs

4
areas of mandated activity
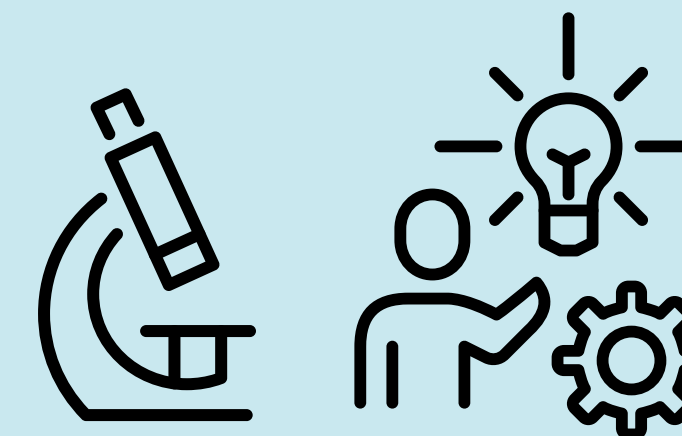
Education, continuing and executive education, research and development, services

The six Schools of
the Lucerne University of Applied Sciences and Arts

Engineering and Architecture — since 1958

Social Work — since 1918

Business — since 1971

Art and Design — since 1877

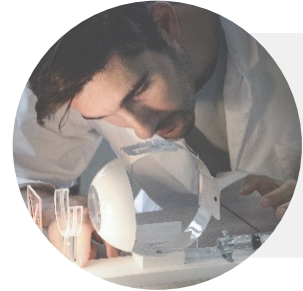**Computer Science and Information Technology** — since 2016

Music — since 1942

Attractive range of degree programs
39 bachelor's programs

Engineering and Architecture
since 1958

- Architecture
- Interior Architecture
- Civil Engineering, three specializations
- Building Technology | Energy
- Electrical Engineering | Information Technology, four specializations
- Mechanical engineering, two specializations
- Business Engineering | Innovation, three specializations
- Medical Engineering
- Energy and Environmental
- Systems Engineering
- Digital Construction
- Digital Engineering

Social Work
since 1918

- Social Work, three specializations

Computer Science and Information Technology
since 2016

- Artificial Intelligence and Machine Learning
- Digital Ideation
- Information Technology, eight majors
- Business Information Technology, seven majors
- Information and Cyber Security, three majors
- International IT Management, two majors

Music
since 1942

- Music with Classical or Jazz profile, four specializations
- Church Music
- Music and Movement
- Wind Ensemble Conducting

Business
since 1971

- Business Administration, 11 specializations
- International Business Administration, three specializations
- Business Psychology
- Mobility, Data Science and Economics
- Hospitality Management SHL

Art and Design
since 1877

- Visual Communication, five specialization
- Product and Industrial Design, five specializations
- Fine Arts and Art and Design Education
- Film, two specializations

Attractive range of degree programs
18 master's programs

Art and Design
Since 1877

- Design
- Digital Ideation
- Film, three specializations
- Fine Arts, three specializations
- Service Design

Computer Science and Information Technology
Since 2016

- Business Information Technology
- Engineering, two profiles
- Digital Ideation
- Specialized teaching and learning methods, Media and Information Technology
- Music and Digital Creation
- Information Technologies, Digitalization and Sustainability

Business
Since 1971

- Business Administrations, six specializations
- Applied Information and Data Science
- Banking and Finance
- International Financial Management, three specializations
- Real Estate

Engineering and Architecture
Since 1958

- Architecture
- Engineering, 11 profiles

Music
Since 1942

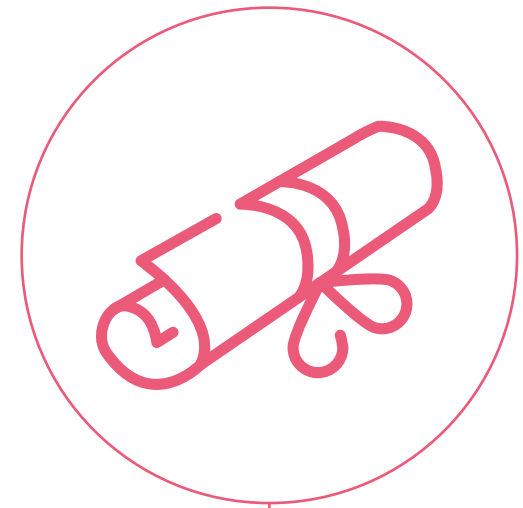- Music, 11 specializations
- Music pedagogy, three specializations

Social Work
Since 1918

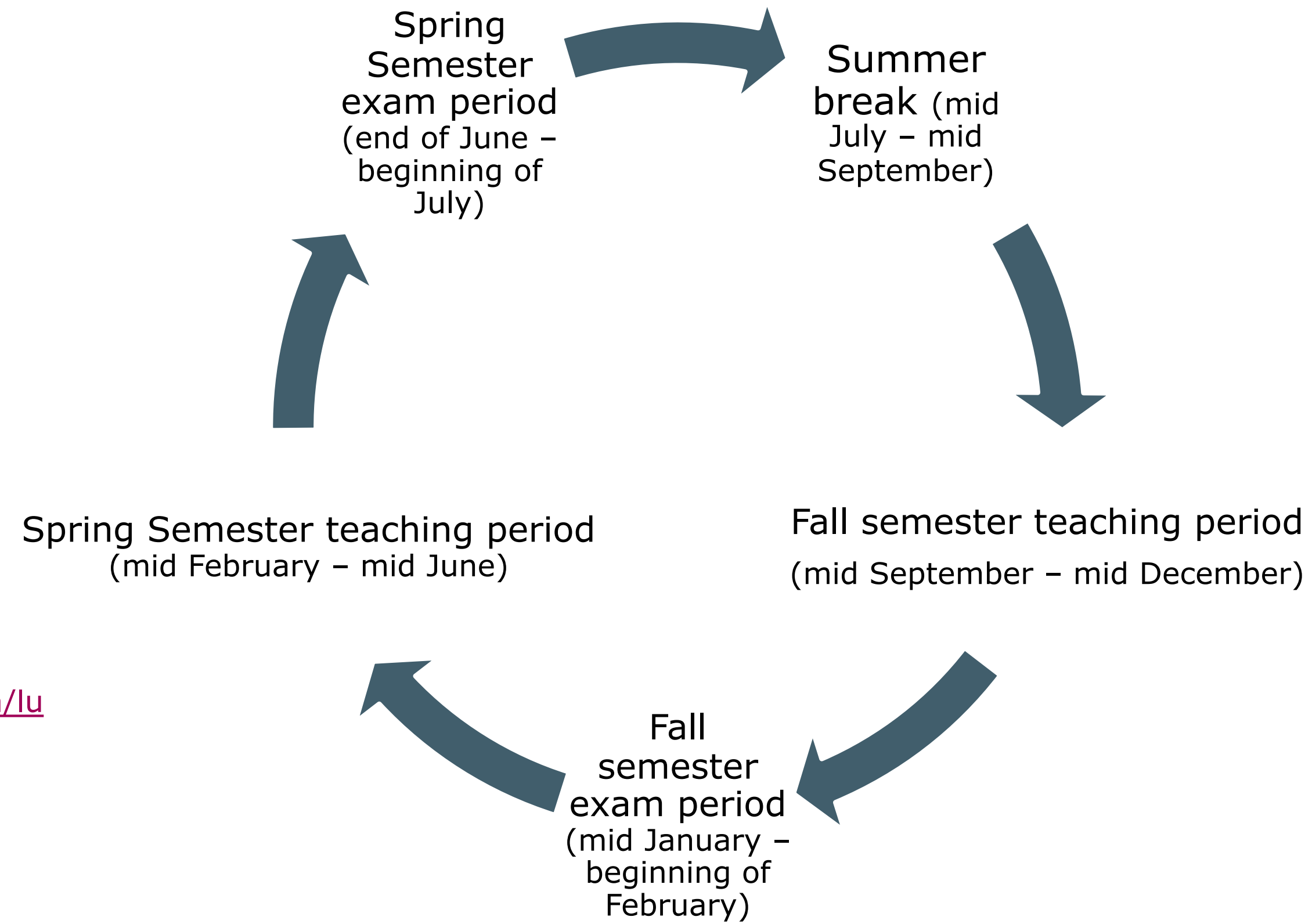- Social Work

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)
- **<u>Information Technologies, Digitalization and Sustainability</u>**
- Music and Digital Creation
(enrollment via School of Music)

Academic year

Spring Semester exam period (end of June – beginning of July)

Summer break (mid July – mid September)

Fall semester teaching period (mid September – mid December)

Fall semester exam period (mid January – beginning of February)

Spring Semester teaching period (mid February – mid June)

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

Master's

Information Technologies, Digitalization and Sustainability

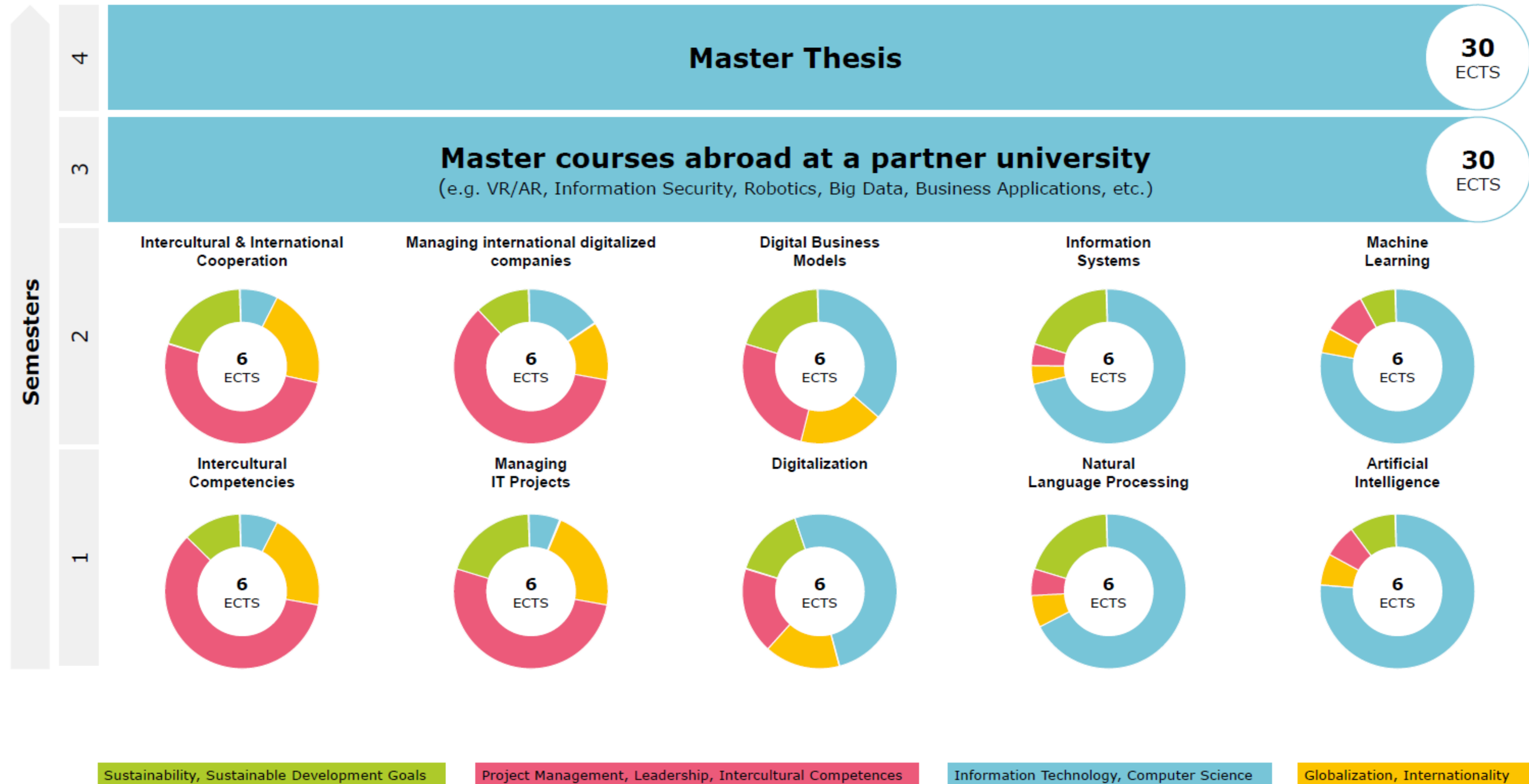|	
Time model	— Full time
Commencement of studies	— September
Place of study	— Rotkreuz
Semester abroad	— 2-3 compulsory semesters (dual/double degree)

Course overview: MSc IT, Digitalization and Sustainability

Overview of contact teaching, teaching schedule

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	
08:30 -11:30		■	■	■			08:30 -10:50
12:30 -15:30			■				12:30 -15:30
16:00 -19:00			■				

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Admission Requirements

Bachelor's degree in	Grade (GPA)	Language Skills	Programming skills	Mathematics and statistical skills
– BSc Information Technology – BSc Computer Science – BSc International IT Management – BSc Business Information Technology – BSc Engineering – other similar bachelor degree programs are possible («sur dossier»)	– Swiss Students: min. 5.0 – International Students: GPA min. 3.5	– C1 Level in English corresponding to the common European Framework of Reference for Languages – No German language skills needed	– at least 9 ECTS credits in programming (JAVA; C#; Python) or – Compulsory preliminary MOOC in programming	– at least 9 ECTS credits in linear mathematics, statistics or – Compulsory preliminary MOOC in mathematics, statistics

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Cost of Studies and Students Personal Expenses

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

- A detailed study costs overview : **https://www.hslu.ch/en/lucerne-school-of-information-technology/degree-programs/master/information-technologies-digitalization-und-sustainability/** for semester basic fees, student cards, library fees, examination fees, exchange semester fees, copy and software licenses, and locker fees etc.

Cost for your personal living expenses in Switzerland *	Periodicity	Amount (in CHF)
Accommodation	monthly	640-720
Groceries	monthly	200 - 400
Public transport	monthly	0
Compulsory health insurance for foreigners	monthly	65 - 180
Total monthly cost approx.	monthly	905 – 1300
Third party liability insurance(Optional)	Yearly	120 – 140

* The cost is indicative and depends on the life style of the student as well.

Admission requirements and process
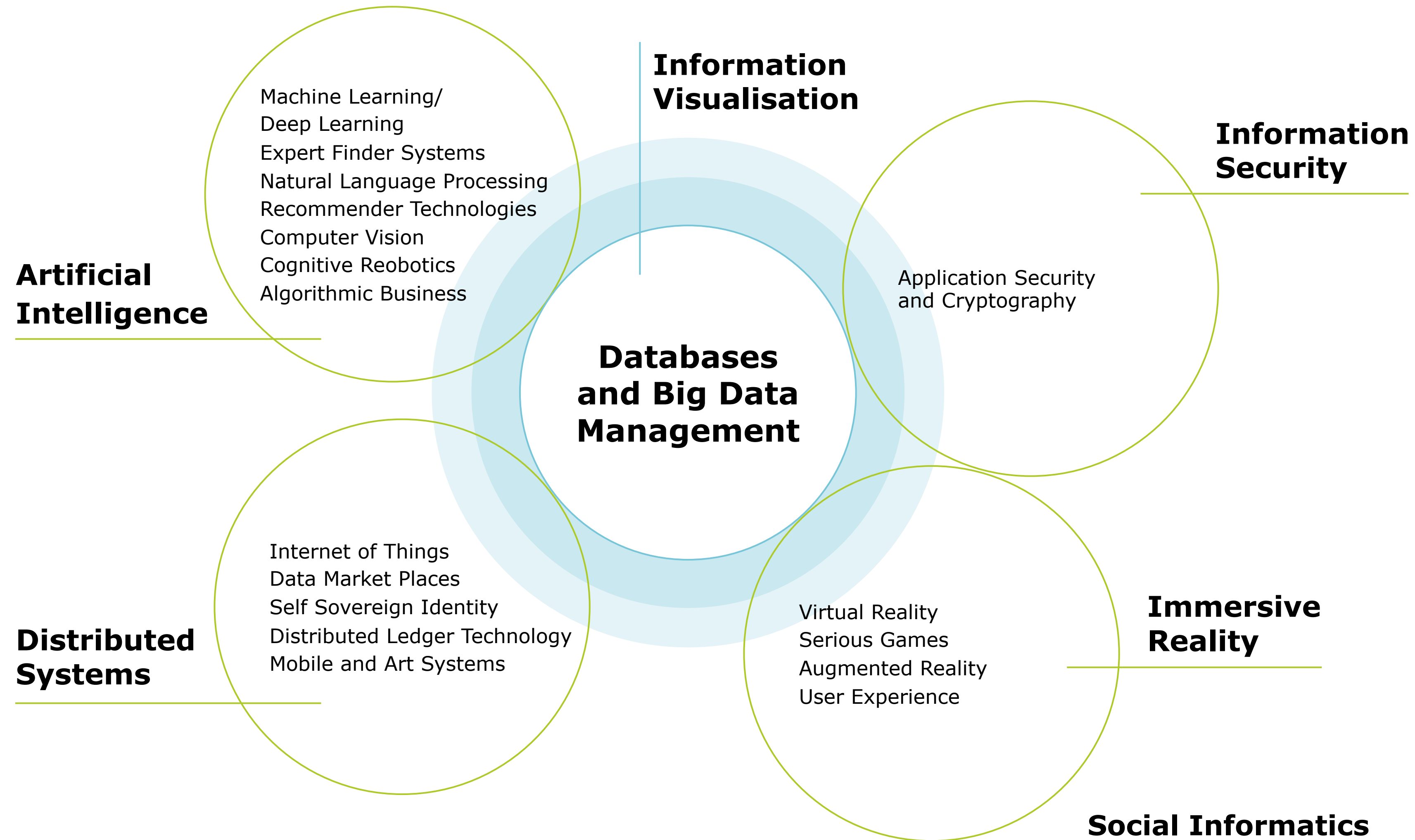
Nomination criteria :

- 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 (FINMA list).

- Personality.

- Highly motivation levels.

Admission process :

Step 1: Eligibility check

Step 2 : Interview round one

Step 3 : Documents verification (Checklist)

Step 4 : Interview round 2

Step 5 : Issue of admission letter

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Research and services
Benefiting from applied information technology research

Information Visualisation

Information Security

Machine Learning/
Deep Learning
Expert Finder Systems
Natural Language Processing
Recommender Technologies
Computer Vision
Cognitive Reobotics
Algorithmic Business

Artificial Intelligence

Application Security
and Cryptography

Databases and Big Data Management

Internet of Things
Data Market Places
Self Sovereign Identity
Distributed Ledger Technology
Mobile and Art Systems

Distributed Systems

Virtual Reality
Serious Games
Augmented Reality
User Experience

Immersive Reality

Social Informatics

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

Student Housing

Additional:
Accommodation for students

New buildings (1+2):
Directly at train station
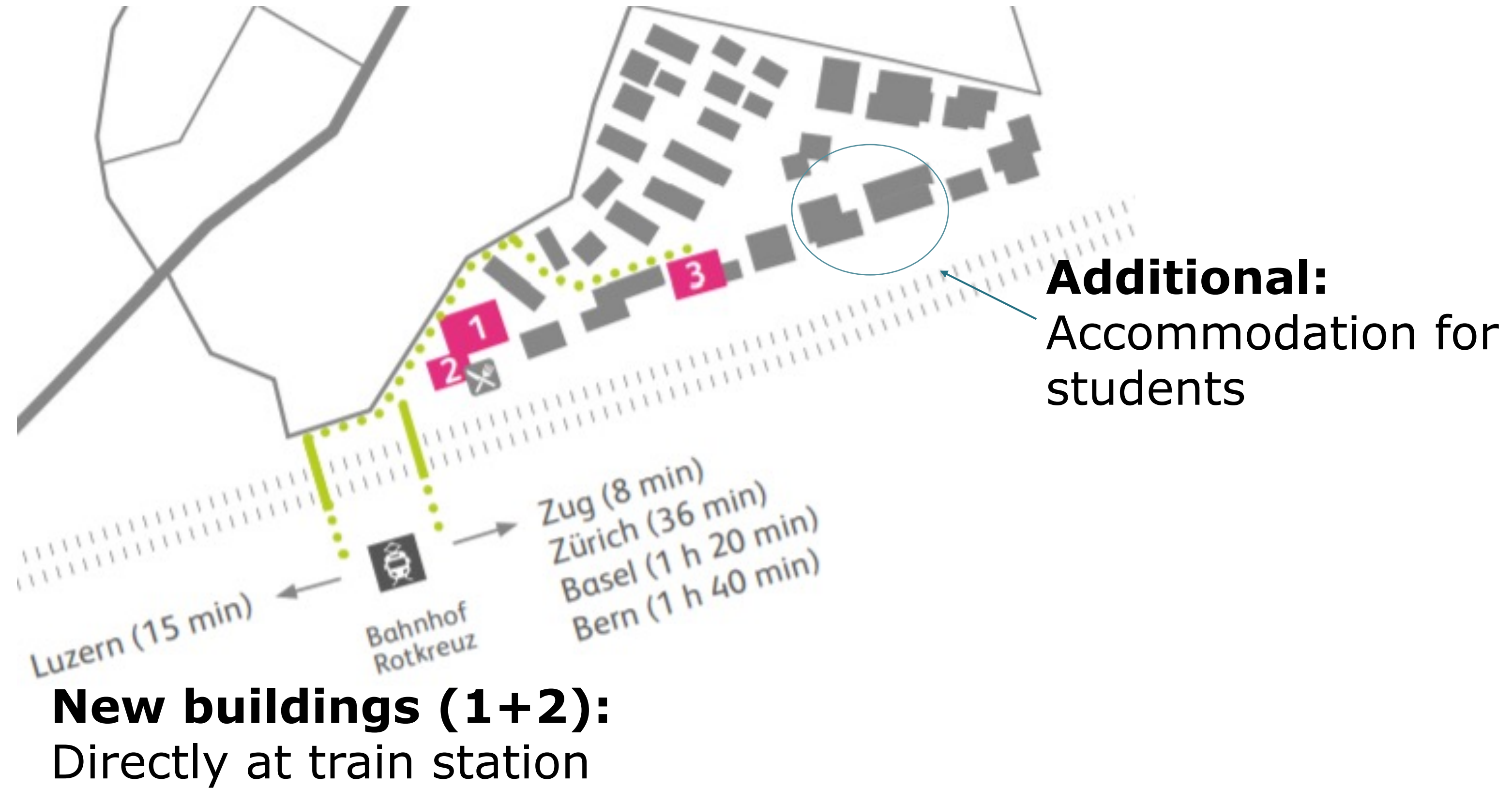
Student Housing : Campus Zug-Rotkreuz (Suurstoffi 18a/b)
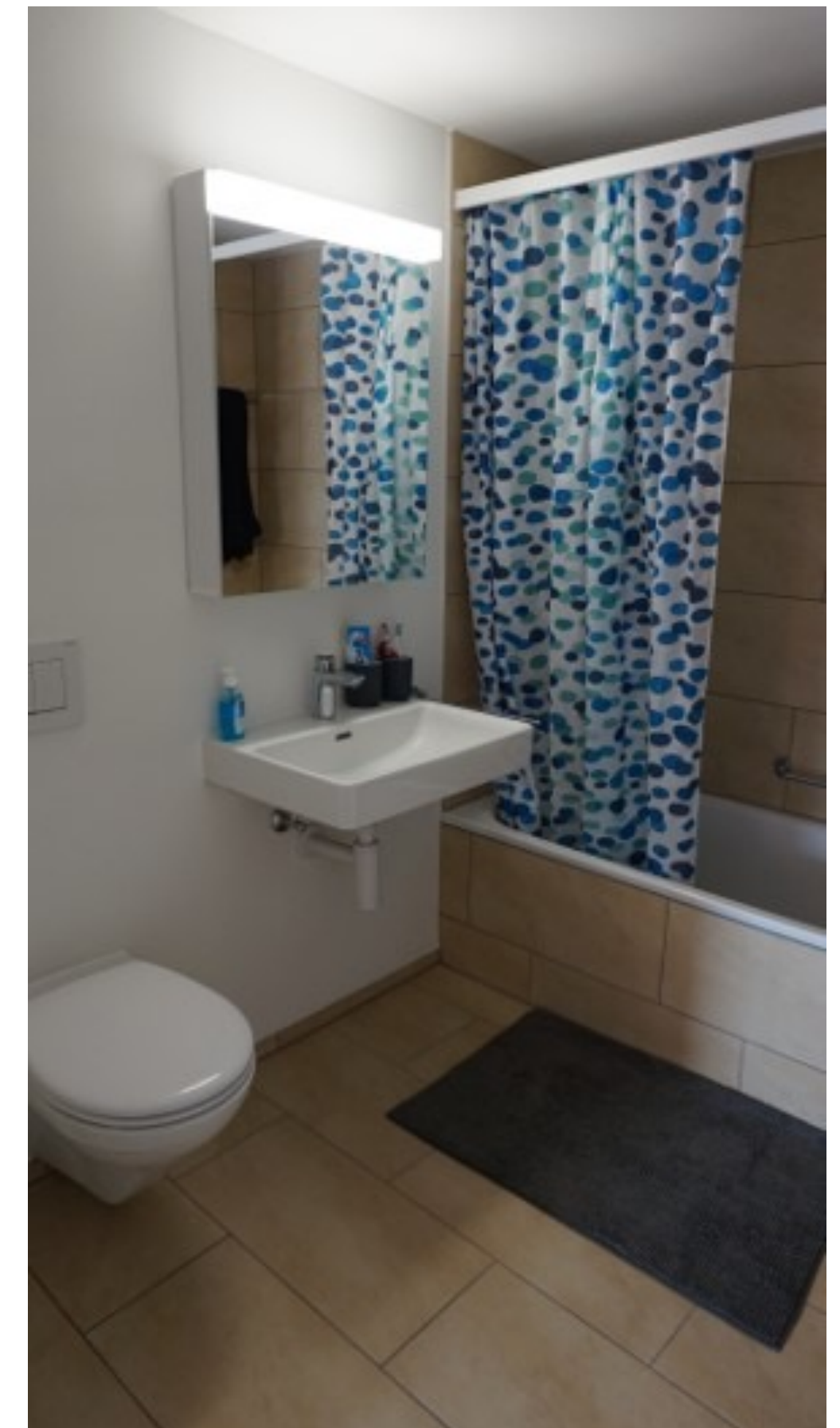
Student Housing : Campus Zug-Rotkreuz
(Suurstoffi 12a)

Contact Information

Lucerne University of Applied Sciences and Arts

School of Computer Science and Information Technology

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

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