

MSc Biomedical Engineering

Orientation Day Christian Frei, Coordinator MSc BME September 19, 2022

MSc Biomedical Engineering (BME): Who We Are

Administrative part

Christian Frei

Coordinator MSc BME



Reto Kreuzer

Coordinator of studies, D-ITET*

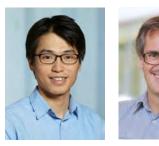


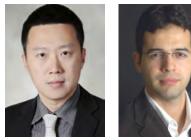
*Other ETH-departments involved: D-HEST, D-MAVT and D-PHYS



MSc Biomedical Engineering (BME): Who We Are (Track Advisors)

- Bioelectronics
 - Taekwang Jang
 - Janos Vörös
 - Hua Wang
 - Mehmet Fatih Yanik





- Biomechanics
 - Ralph Müller
- Bioimaging
 - Klaas Prüssmann
- Medical Physics
 - Tony Lomax
 - Marco Stampanoni
- Mol. Bioengineering
 - Mark Tibbitt
 - Marcy Zenobi



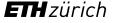






- Representative D-MAVT
 - Brad Nelson





BEEZ and AMIV

- BEEZ: Biomedical Engineering
 Student Association
 - Anne zur Horst



 AMIV: Student's Association of D-ITET and D-MAVT



Incoming Class HS22

- 70 students
 - Belgium (1), China (7), France (1), Germany (1),
 Greece (1), Hungary (1), Italy (4), Lebanon (1), Spain (6), Switzerland (43) and USA (4)

ETH Bachelors (37) Males (32), females (38)





Your Studies are Subject to Regulations

- Study regulations
 - <u>www.rechtssammlung.ethz.ch</u>
 - www.master-biomed.ethz.ch

ETH		RSETHZ 324.1.0350
	chnische Hochschule Zürich itute of Technology Zurich	
	Programme Regulations 20	20
	of the Master's degree program	nme in
	Biomedical Engineering	
	Departments of	
Informatio	on Technology and Electrical Eng	ineering ⁽¹ (D-I
Me	chanical and Process Engineerin	g (D-MAVT)
	lealth Sciences and Technology	(D-HEST)
	Physics (D-PHYS)	
	29 October 2019	
	This English translation is for information purpos The original German version is the legally binding o	
Chapter 1:	General regulations	1
Chapter 2:	Content, structure and scope of the Master degree programme	s 10 -
Chapter 3:	Admission to the Master's degree programme	me 23 -
Chapter 4:	Performance assessments	25 -
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Appendix 1	Admission	
Appendix 2	Qualification profil	
Version: 29.10	.2019 – 0	
	nent, pursuant to Art. 33, Para. 1 of the ETH Zurich Orga	inisational Ordinance (C
tionsverordnung k		

ETH zürich

Reminder: Student Online Portal

- Your administrative duties on <u>www.mystudies.ethz.ch</u>
- Enrollment to courses and exams:
 - Register for each semester until the end of the second week
 - Register for courses (early in the semester; you need to be registered for a course to enroll for an exam)
 - Submit a study plan/learning agreement (until the end of the 4th week)
 - Enroll for exams please enroll during the 3rd and 4th week of the semester (withdrawal possible until very late)
- Notify us of your address changes
- Read your e-mails!

EldgenBassische Technology Zurich myStudies

Login

You must select the language before logging in. Die Sprachauswahl kann nur vor dem Login erfolgen.

Use your ETH Zurich account (nethz).



How to Choose / Enroll for Lectures?

- Consult your track advisor!
- Overview of lectures to choose from:
 - <u>http://www.master-biomed.ethz.ch/education</u>

- Course catalogue:
 - www.vvz.ethz.ch
 - Level: Master's Degree Programme > Department: ITET > Programme: Biomedical Engineering Master

Time				n day		
08:00			Mo	nday		1
09:00		No		Neural Systems	Elements of Microscopy	
10:00		Soft and Biohybrid Robolics				-
12:00						
13:00		Finite Element Analysis in				
15:00	Microsystems II: Devices	Biomedical Engineering	-			
16:00	and Applications		Introduction to Robotics and Mechatronics	Onthopaedic Biomechanics		Advanced Topics in Con (Spring 2022)
18:00			anecraticulos		1	(Spanny ever)
Time			Tue	sday		
08:00	Rehabilitation Engineering I: Motor Functions		Al and a second		Physiology and Anatomy for Biomedical Engineers II	
10:00		Translational Neuromodeling	Nanteobolics	Optics and Photonics	Machine Learning for Health	Biomedical Photonica *
11:00					Care	The second second
13:00					Machine Learning for Health	
14:00	and a second				Care	Introduction to Machine
15:00	Neuromorphic Engineering II		Lasers in Medicine			Learning
16:00 17:00		MaP Distinguished Lecture Series on Soft Robotics *	-		Large-Scale Convex Optimization	
18:00						
-			-			
Time 08:00		1	Wedr	wesday		1
09:00	Applications of Thermal			-		
10:00	Modeling, From Hot Aloms					
11:00	to Heated Tissues					
13.00				5		
14:00		Introduction to Machine Learning	Rhoursive Estimation			
16:00		- Contraction of the second se		-		
17:00 18:00						
		-				
Time			Thu	raday		
08:00		-		-		-
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11:00 12:00	-	Nanometer Scale	-	t term margine in camerica	Medical Implants	
13:00	0.000				Development Strategies for	
13:00	Microsystems II: Devices and Applications				Medical Impiants	Cell and Molecular Biolog
15:00	and obtainances					for Engineers II
16:00			Nanorobotics	5		
18:00						
-						
Time			Fri	day		1
08:00	Rehabilitation Engineering I: Motor Functions	Principles in Tissue	-		Chemistry of Devices and	
09:00		Engineering			Technologies	Large-Scale Convex
10:00	Advanced Topics in Control (Spring 2022)		Biofuiddynamics	Physics Against Cancer: The Physics of Imaging and		Optimization
12:00				Treating Cancer		
13:00 14:00			Physics in Medical		Introduction to Machine	
15:00	Advanced Signal Analysis, Modeling, and Machine	Translational Neuromodeling	Research: From Humans to	Computer Simulations of Sensory Systems *	Learning	
16.00 17:00	Learning		Cells			
18:00						
	No. of Concession, Street, Str	A CONTRACTOR OF	March Law Broken			
kma 2022	Biological Methods for Engineer	s (Advanced Lab)	Various dates: Computation	al Psychiatry & Computational Pa	vchosomatica *	

120 Credits ECTS to Fulfill the MSc BME

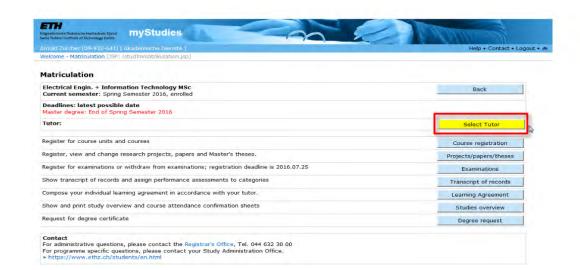
 Track Courses * Track Core Courses, at least 12 CP Recommended Elective Courses Biology Courses 	52 to 76 CP	Part of the learning agreement (next slide)
 Semester Project * 	12 CP	
Option: 2nd Semester Project	12 CP	1
Option: Internship at Industry	12 CP	Those projects will
Option: Research Project	24 CP	These projects will change (for FS23)
Option: D-HEST Research Projects	5 to 15 CP	
 Master Project * 	30 CP	
 Humanities (GESS/SiP) * 	2 CP	
• Total	120 CP	

*: mandatory

Learning Agreement / Individual Study Plan

- Select tutor
- Discuss your choice with the track advisor, edit and submit the list in *myStudies* by the end of the fourth week of the semester

- Contains all core courses, recommended elective courses and biology courses
- Track advisors can allow courses not predefined for a particular track
- Only these courses can be accounted for the final degree



120 Credits ECTS to Fulfill the MSc BME

Track Courses * 52 to 76 CP ۲ Track Core Courses, at least 12 CP Recommended Elective Courses **Biology Courses** _ Semester Project 🏷 12 CP 12 CP - Option: 2nd Semester Project - Option: Internship at Industry 12 CP - Option: Research Project 24 CP - Option: D-HEST Research Projects 5 to 15 CP Master Project * 30 CP 2 CP Humanities (GESS/SiP) * ٠ 120 CP Total •

Semester Project: 14 weeks 50% or 7 weeks 100% Master Project: 6 months 100%

Register with myStudies

Projects must be supervised by a professor affiliated with one of the 4 participating departments: D-ITET, D-HEST, D-MAVT or D-PHYS (*this will change for FS23*)

120 Credits ECTS to Fulfill the MSc BME

- Track Courses * ۲
 - Track Core Courses, at least 12 CP
 - Recommended Elective Courses
 - **Biology Courses**
- 12 CP Semester Project * ٠
- 12 CP - Option: 2nd Semester Project
- Option: Internship at Industry
- Option: Research Project
- Option: D-HEST Research Projects
- Master Project * 30 CP • 2 CP Humanities (GESS/SiP) * 120 CP
- Total •

ETH zürich Department of Humanities, Social and Political Science



The GESS/SiP courses are mandatory for all students at ETH

GESS courses are selected and offered by the Department of Humanities, Social and Political Sciences (D-GESS)

Contact: Study admin D-GESS, Malte Bachem, malte.bachem@gess.ethz.ch

www.gess.ethz.ch

*: mandatory

52 to 76 CP

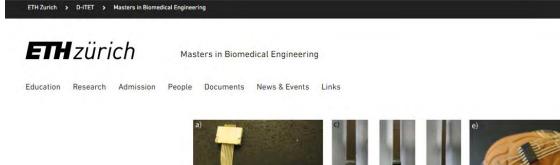
12 CP

24 CP

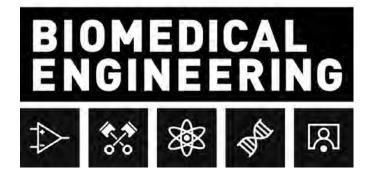
5 to 15 CP

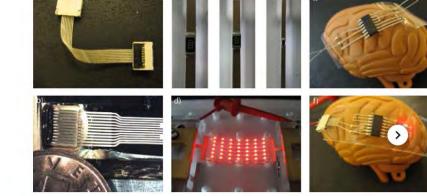
Questions?

- Come to us
- This presentation can be downloaded from our website:
 - http://www.master-biomed.ethz.ch/



ETH zürich





Bioelectronics

Research at the Laboratory of Biosensors and Bioelectronics

(<)

English

Q

ETH zürich

Dr. Christian Frei Coordinator MSc Biomedical Engineering frei@biomed.ee.ethz.ch

ETH Zürich D-ITET Gloriastrasse 35, ETZ F 83 8092 Zürich



Contacts / Information for Students of the MSc Biomedical Engineering

September 19, 2022 Reto Kreuzer, Coordinator of Studies / Student Advisor, D-ITET

Agenda

- 1. The D-ITET: Your new host department
- 2. Finding the right contact
- 3. Courses, exams and credits
- 4. Useful information

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The D-ITET: Optimal support for over 2000 students

Numbers

BSc	ETH D-ITET	10'642 820
MSc	ETH D-ITET Electrical Engineering MSc Biomedical Engineering MSc Energy Science & Technology MSc Quantum Engineering MSc <i>Neural Systems & Comp. MSc (UZH)</i>	8'299 955 547 162 100 101 <i>4</i> 5
Exchange	ETH D-ITET	458 59

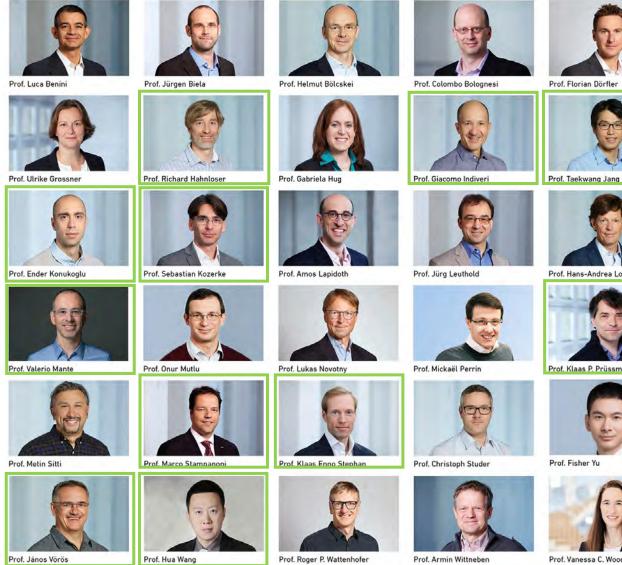
00 students

- professors
- + other lecturers
- 0+ PhD students
- udy administration

ΛIV

support

Professors





Prof. Hans-Andrea Loeliger

Prof. Klaas P. Prüssmann

Prof. Fisher Yu

Prof. Vanessa C. Wood



Prof. Lana Josipovic

Prof. Mathieu Luisier

Prof. Daniel Razansky

Prof. Luc Van Gool





Prof. Johann W. Kolar









Prof. Mehmet Fatih Yanik





Prof. John Lygeros



Prof. Kaveh Razavi



Prof. Laurent Vanbever



Prof. Maksym Yarema





Finding your contacts

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ETA-Scherrer-Hörsaal F 5 Hörsäle E 8 / E 9

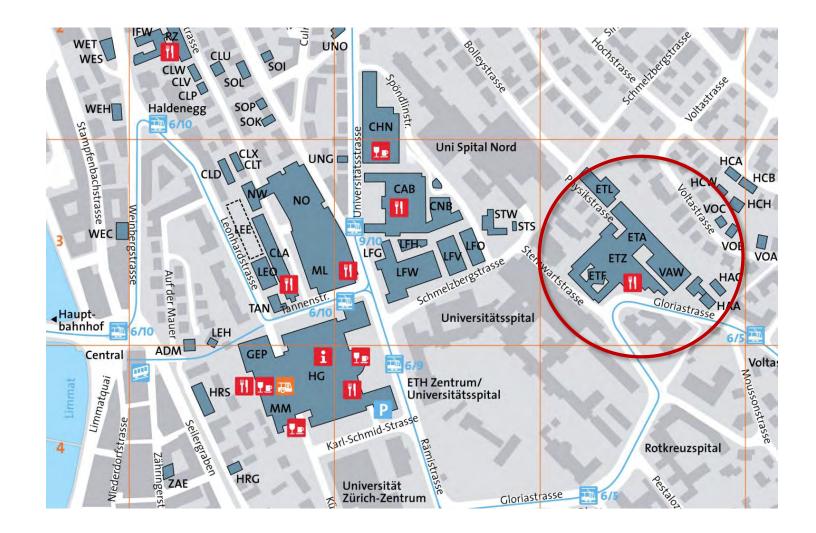
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Sitzungsraum E 81

→ Hörsäle E6 / E7 Haupttreppe / Lifte

> ETF-Gebäude Hörsäle C1/E1

Map of ETH and D-ITET



ETH zürich D-ITET Welcome Day

Where do I find information on the web?

- General Information on studies at ETH
 ETH students' website: <u>www.ethz.ch/students</u>
- Information on the Master in Biomedical Engineering

D-ITET website: www.master-biomed.ethz.ch

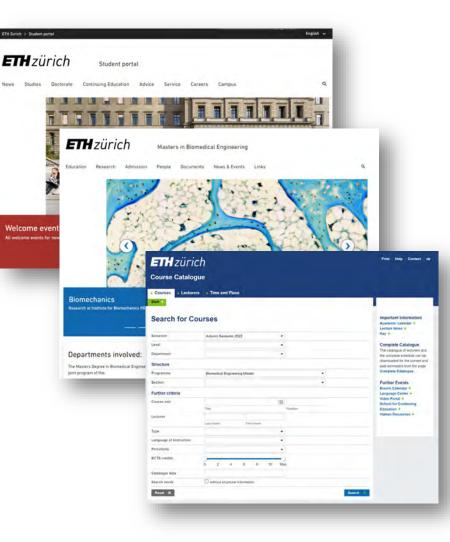
Course catalogue

Online: <u>www.vvz.ethz.ch</u> > Programme > Biomedical Engineering (...) Master

Messages from ETH and the Department

Email on your ETH-Address (username@student.ethz.ch)

 \rightarrow check your mailbox regularly and read the messages carefully!



Your most important contacts at ETH and the D-ITET



D-ITET Welcome Day

Your contacts at the D-ITET





Reto Kreuzer

Head of Student

Administration /

Student advisor







Audrey Djouadi Course scheduling / Student exchange advisor

ETZ F 94 +41 44 632 53 25 kozerke@biomed.ee.ethz.ch

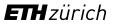
Prof. Sebastian Kozerke

Director of studies D-ITET

ETZ H 83 +41 44 632 08 15 info@ee.ethz.ch

ETZ H 85 +41 44 632 50 03 info@ee.ethz.ch

ETZ H 87 +41 44 632 89 57 info@ee.ethz.ch



Administrative matters

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myStudies – do not forget to...

...register for courses and exams

- Register for each semester until the end of the second week
- Register for courses early in the semester; you need to be registered for a course to enroll for an exam
- Submit the tutor agreement until the end of the 4th week of the semester
- Enroll for exams enroll during the 3rd and 4th week of the semester, withdrawal possible until very late

... notify us of your address changes

And read your E-Mails!

More info can be found in the videos on *MyStudies: Semester Enrolment & Course Registration* published at <u>www.ethz.ch/how-to-eth</u>

Enrolling for courses

- All courses you wish to count towards your Master Diploma must be enrolled for (both the course and the exam);
- Only **courses agreed upon** by your **track advisor** will count for the degree, other courses go on a separate sheet, attached to the final transcript.
- In particular, do not forget to enroll for the Semester Projects and the Master Thesis (special section in myStudies "Projects/Papers/Theses).

Performance Assessments

- Three types of performance assessments:
 - Session examination (Winter session: January/February Summer session: August), Attention to registration/deregistration deadlines
 - End-of-semester examination (2 weeks before end of lectures until 2 weeks after end of lectures), Attention to registration/deregistration deadlines
 - Graded/ungraded semester performance (e.g. semester project or internship in industry (performance during semester), Attention minimum/maximum allowed time/deadlines
- Passed exams cannot be re-taken, failed exams can be re-taken once!
- Special rules may apply regarding allowed (written) aids:
 - Course catalogue > see "Performance assessment"
 - Personal exam schedule in myStudies (for session examinations)
 - Lecturer/examiner

Your studies are subject to regulation

• Study regulations (mostly available in German only)

www.rechtssammlung.ethz.ch (complete collection, German)
www.ee.ethz.ch > Studies > Forms and Documents (MSc EEIT regulations in English)

• Rector's Directives (some available in German only)

<u>www.ethz.ch/students</u> > Studies > Legal basis > Directives Collection

• Questions?

International students, please contact the <u>international student support</u> or the <u>D-ITET study administration</u> for help on regulations.

information

Useful information

Counselling at ETH and the D-ITET

- Course selection $? \rightarrow$ your track advisor
- Studies at D-ITET, i.e., deadlines, failures at examinations etc. $? \rightarrow$ the coordinator of studies
- General questions regarding your arrival at ETH ? → <u>international student support</u>
- Time management / motivation $? \rightarrow \underline{student \ coaching}$
- Difficult phases / personal problems ? → psychological counselling service (free of charge and confidential)

Computer infrastructure at ETHZ / D-ITET

- All public ETH-computers, e.g., Main Building HG D 11, or ET-Building ETZ D 61.1, require your **n.ethz** password, same as used for myStudies
- Only ITET students can access the computer infrastructure in the ET-building area, should you encounter a problem, contact <u>support@ee.ethz.ch</u>, IT support office ETF D 106
- Project Neptune during a short period (until October 3), laptops and tablet computers may be purchased through ETH at interesting prices
- IDES ETH also offers software at very low cost, some products even for free.
 Remember: the use of non-licensed software is forbidden and subject to prosecution!

Code of conduct

« At D-ITET, we maintain an inclusive, open and friendly environment, where our students, employees and faculty can thrive and achieve their highest potential, based on mutual respect. To preserve this cordial environment, we do not tolerate misbehavior of any kind, including threats, violence, bullying, sexual harassment, discrimination, or dishonesty in study and in research. »

Prof. Klaas Enno Stephan, Head of Department

Further information on the Web:

- Our principles
- What is "inappropriate behavior"?

D-ITET Welcome Dav

- How to react?
- Contacts / support

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19.09.2022

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More details?

• My Office

Reto Kreuzer, Study Coordinator D-ITET, ETZ H 83 Please send an E-mail to fix an appointment (info@ee.ethz.ch)

• This presentation

Available tomorrow morning on www.ee.ethz.ch > Studies > Forms and Documents

Enjoy your studies at ETH!



Zürich, September 19th 2022

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Welcomé-Day



∰amıv



High School Politics

Representation of students' interests

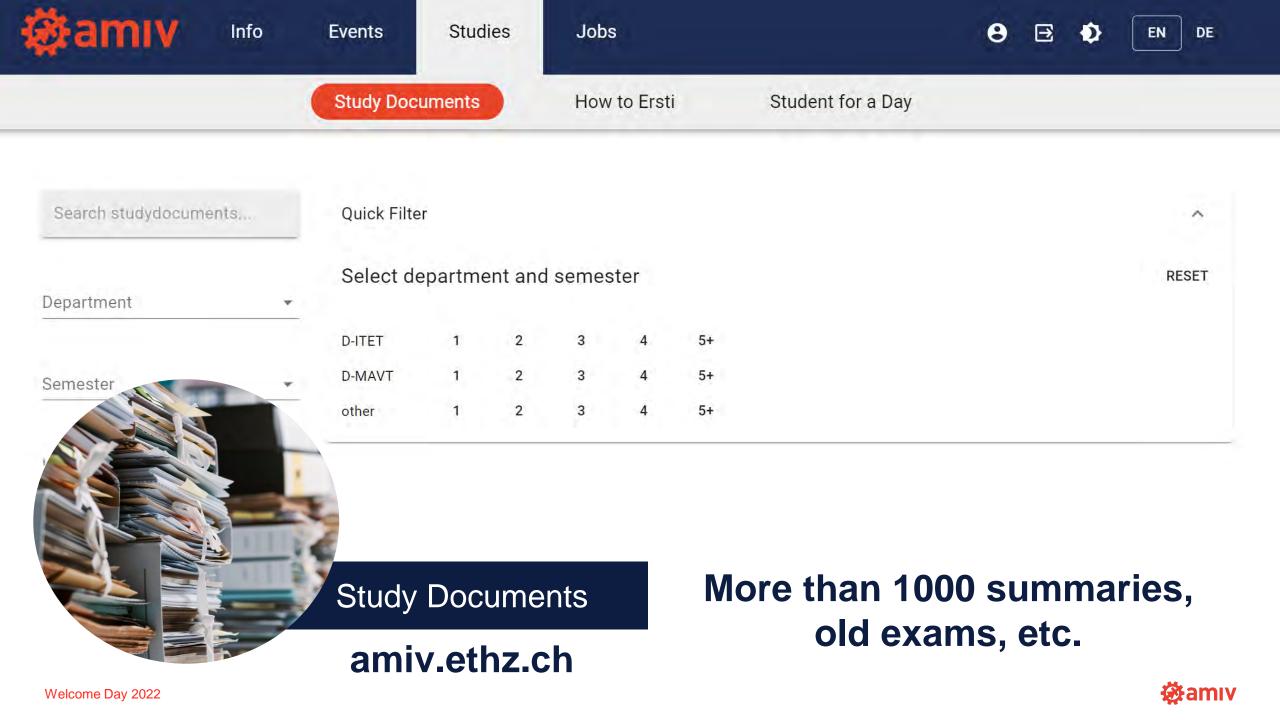
Questions or complaints to hopo-itet@amiv.ethz.ch



Welcome Day 2022

- Theater
- Poker- / Jass tournament
- Sushi-Night
- Absolventenparty
- Strongmanrun
- Skiweekend
- Lasertag
- Beachvolleyball tournament



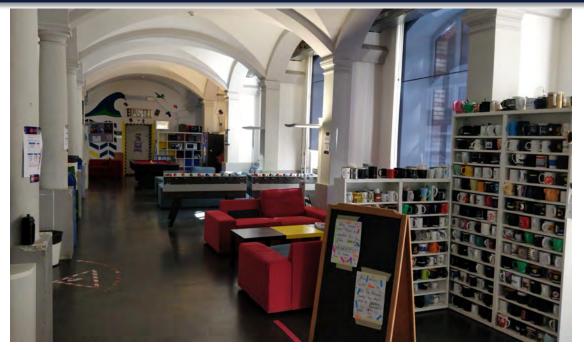


Written recollections of oral exams

extremely useful when preparing for an exam

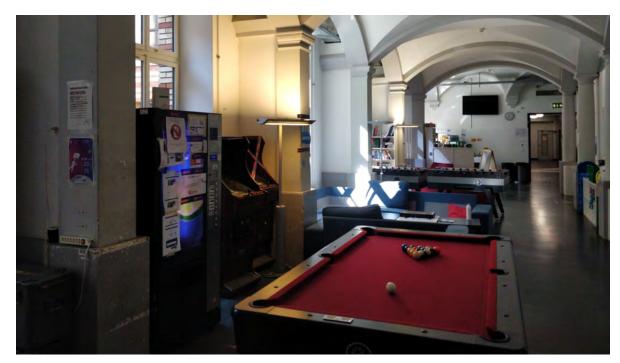






- Coffee machine
- Beer vending machine
- Table football
- Billiard table

- Couches
- TV with game console
- microwaves



Bamiv

AMIV committees





die Fachzeitschrift des amiv an der ETH









eestec ELECTRICAL ENGINEERING STUDENTS'





AMIV Kontakt.22:

The Job Fair for Engineers! CLA & LEE Buildings 11. & 12.10.2022, 11:00–17:00



57 companies 2 days Free CV-checks Free photo shoots Presentations & Workshops







AMIV Kontakt.22:

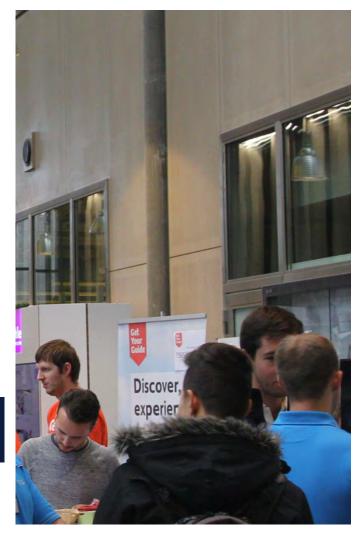
Presentations and Workshops with free Apéros!

Quereinstieg ins Software Engineering Tuesday, 27.09.2022, 18:00, HG E 1.2

Job Search Strategies Thursday, 29.09.2021, 18:15, HG E 5

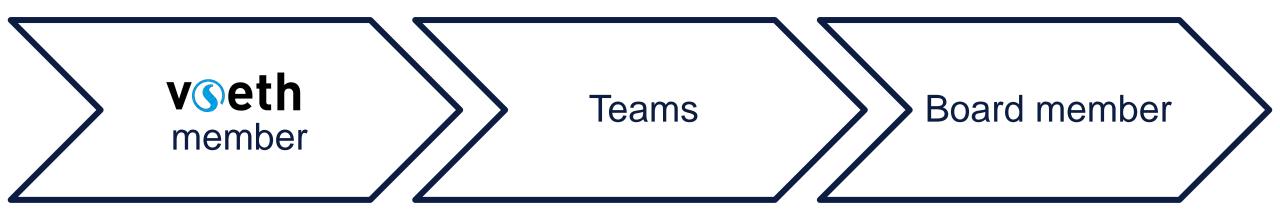
Lohnverhandlungen und Saläre Tuesday, 04.10.2021, 18:15, HG E 3

Register on amiv.ethz.ch/events





Wie kannst du mitmachen?



Voluntary contributions 🛈 for the Autumn Semester 2019

Note: If membership is selected, the personal and address data required for member administration and other club activities will be forwarded to the respective club.

	Yes	No
Solidarity fund for foreign students (CHF 5)	۲	0
SOSETH membership (CHF 5)	۲	0
VSETH membership (CHF 10; for doctoral students CHF 35)	۲	0
	Save	



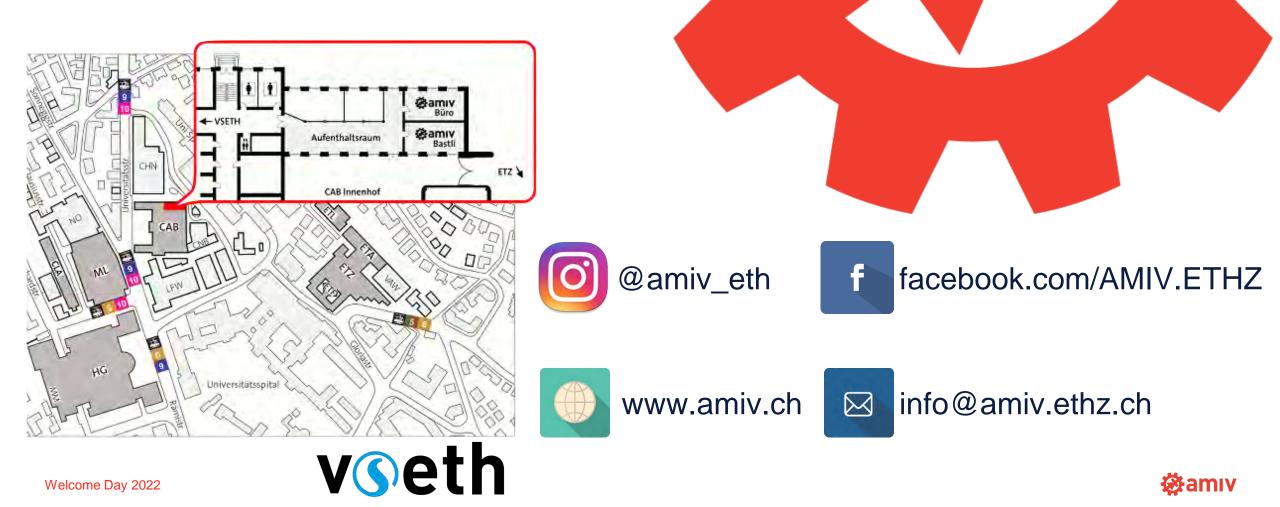
Questions?





Welcome Day 2022

Universitätstrasse 6 8092 Zürich



Ladies In Mechanical and Electrical Studies

UNSERE ZIELE:

• mit Kommilitoninnen* verbinden

- mit Industriepartner:innen verbinden
 - jüngere Schülerinnen* inspirieren



UNSERE EVENTS:

- Erstsemestrigenapéro
- Schülerinnentag
- Frauenabend
- Exkursionen
- Stammtisch
- LIMES Talks







... vieles mehr





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