

Departement Informationstechnologie und Elektrotechnik

Welcome at D-ITET!

Welcome Event for new doctoral students

29 October 2020

Welcome





Prof. Vanessa Wood

- Head of the Institute for Electronics
- Head of Department at D-ITET
- Vice President for Knowledge Transfer and Corporate Relations of ETH Zurich

Prof. Sebastian Kozerke

- Head of the Cardiovascular Magnetic Resonance Group at the Institute for Biomedical Engineering
- Director of Studies at D-ITET



Welcome

Sean Weaver

- Doctoral student at the Laboratory of Biosensors and Bioelectronics
- Co-President of VMITET

Reto Kreuzer

- Head of student administration D-ITET
- Coordinator of studies and student advisor D-ITET

Maja Bügler

• Head of Human Resources (HR) for D-ITET

Welcome Event







3

Programme

1. ETH and D-ITET

- 2. Introduction VMITET
- 3. Doctoral studies, research and teaching
- 4. Some employment information
- 5. Further information & contact persons
- 6. Code of Conduct
- 7. Case studies

ETH and D-ITET

Prof. Vanessa Wood



Top EE-faculty in continental Europe



QS World University Ranking (2020)

No. 6 in the world (overall ranking) No. 5 in Electrical & Electronic Engineering

THE World University Ranking (2020)

No. 13 in the world (overall ranking) No. 13 in Electrical & Electronic Engineering

Academic Ranking of World Universities (2019)

No. 19 in the world (overall ranking) **No. 10** in Electrical & Electronic Engineering

The D-ITET in numbers

BSc	ETH D-ITET	9'895 787	•
MSc	ETH D-ITET Electrical Engineering MSc Biomedical Engineering MSc Energy Science & Technology MSc Quantum Engineering MSc <i>Neural Systems & Comp. MSc (UZH)</i>	7'037 707 427 111 99 25 45	• • •
Exchange	ETH D-ITET	467 56	•

42 professors
50 other lecturers
400 doctoral students
Study administration
AMIV

• IT support

Four core research areas

- Electronics and Photonics
- Information and Communication
- Energy
- Biomedical Engineering and Neuroinformatics

in 19 Labs



Electronics and Photonics

- Prof. Luca Benini
- Prof. Colombo Bolognesi
- Prof. Gian-Luca Bona
- Prof. Qiuting Huang
- Prof. Taekwang Jang
- Prof. Juerg Leuthold
- Prof. Mathieu Luisier
- Prof. Lukas Novotny
- Prof. Christoph Studer
- Prof. Vanessa Wood
- Prof. Maksym Yarema

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Information and Communication

- Prof. Helmut Bölcskei
- Prof. Florian Dörfler
- Prof. Orçun Göksel
- Prof. Maryam Kamgarpour
- Prof. Ender Konukoglu
- Prof. Amos Lapidoth
- Prof. Hans-Andrea Loeliger
- Prof. John Lygeros

- Prof. Onur Mutlu
- Prof. Kaveh Razavi
- Prof. Lothar Thiele
- Prof. Laurent Vanbever
- Prof. Luc Van Gool
- Prof. Roger P. Wattenhofer
- Prof. Armin Wittneben



Energy

- Prof. Jürgen Biela
- **Prof. Christian Franck**
- Prof. Ulrike Grossner
- Prof. Gabriela Hug
- Prof. Johann W. Kolar

Biomedical Engineering and Neuroinformatics

- Prof. Benjamin F. Grewe
- Prof. Richard Hahnloser
- Prof. Giacomo Indiveri
- Prof. Sebastian Kozerke
- Prof. Klaas P. Prüssmann
- Prof. Daniel Razansky

- Prof. Metin Sitti
- Prof. Marco Stampanoni
- Prof. Klaas Enno Stephan
- Prof. János Vörös
- Prof. Mehmet Yanik

Welcome Event

The Department Management



Head of Department: Prof. Vanessa Wood



Deputy Head of Department: Prof. Klaas Enno Stephan



Director of Studies: Prof. Sebastian Kozerke



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Introduction VMITET

Sean Weaver, **vmitet**

Co-President



Contact Details

https://www.vmitet.ethz.ch

vmitet@ee.ethz.ch

weaver@biomed.ee.ethz.ch

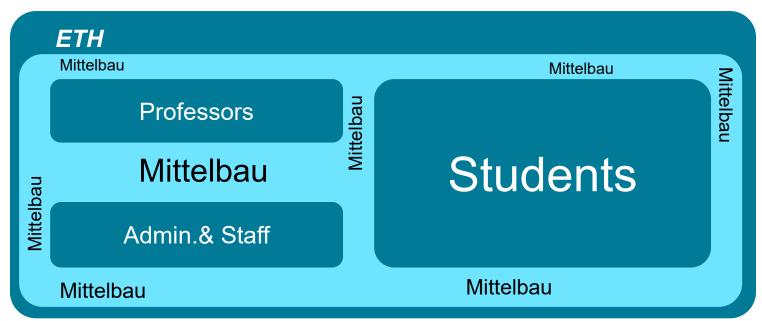


vmitet is the association of the *Mittelbau* at ITET

#1 What is vm itet?	
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#1.1 What is the Mittelbau?





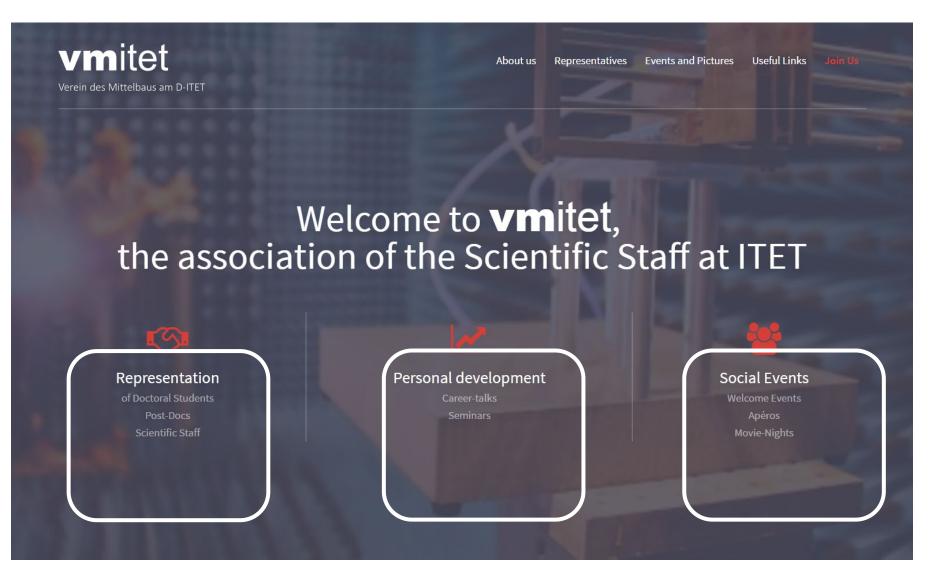


vmitet is the association of the *Mittelbau* at ITET





#2 What do we do?





#2 What do we do? Representation in ITET Commissions



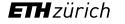


#2 What do we do? Personal development events

Career Talks Alumni come by to tell you about their careers

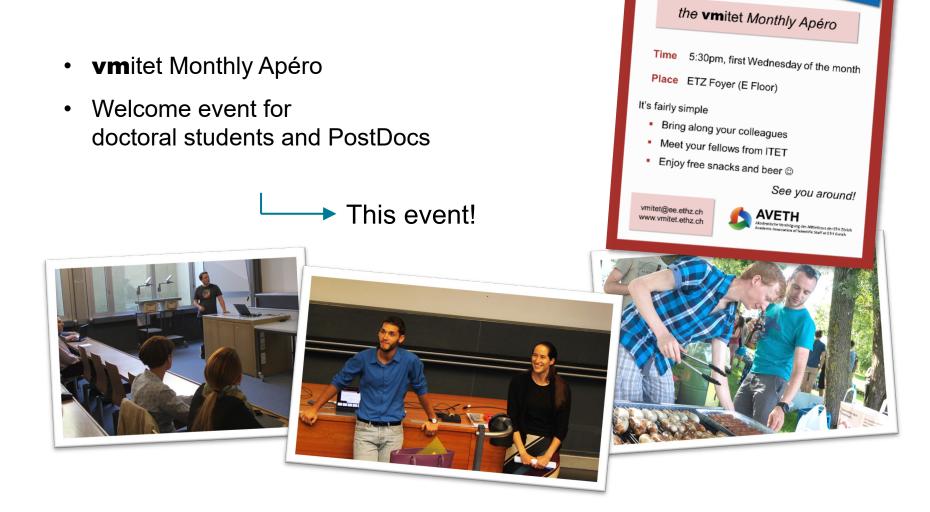






#2 What do we do? Social Events

"Ours"



ETHzürich

vmitet

Verein des Mittelbaus am D-ITET

Have you heard about...?

DITET

#3 What else can we do? Personal development events



Workshops

Seminars

- Open Access Research
- Sustainable data storage
- Leadership
- ...
- vmitet meets TIK / IfA / 'your lab name'
- Postdoc/PhD career day



Mission Statement

- Create a space where people feel emotionally, physically, and intellectually safe
- Transform institutional culture so that the potential of people with diverse backgrounds can be leveraged
- Create an open **discussion culture** about difficult topics regarding
 discrimination

D+ITET





Zeta Avarikioti

Andreas Messner





Alexander Dietmüller



Eva Ahbe

Marco Eppenberger

Maria Apostolaki









Dominik Bauer

Implementation

- Workshops + Talks:
 - 16 Personalities
 - Uncovering Unconscious Bias
 - The Role of Diversity in Innovation

• Events:

- Summer Food Bazaar
- Panel Discussions:
 - How to leverage diversity

Outreach

- Collaboration with department
- Mentoring (planned)



HelpDesk

DHTET ITET HelpDesk

- First point of contact in early state conflicts
- Trusted mediators are fellow ITET doctoral students offering a peer-topeer contact point
- Strictly confidential



www.vmitet.ethz.ch/counseling.php

D+ITET

Contact us *diversity@ee.ethz.ch*

We meet through conference calls each week.

Currently taking part and discussing the AVETH diversity seminar series.

Next Thursday (5.11. 5-6 pm): Diversity and race in STEM

Upcoming flagship event:

We are going to announce our own virtual panel discussion this year.

• Tackling specifically (racial) discrimination within our community and within Switzerland.



https://www.vmitet.ethz.ch/diversity.php

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A. Research Activities and Doctoral Studies

- Prof. Sebastian Kozerke
- Reto Kreuzer



What is "Research"?



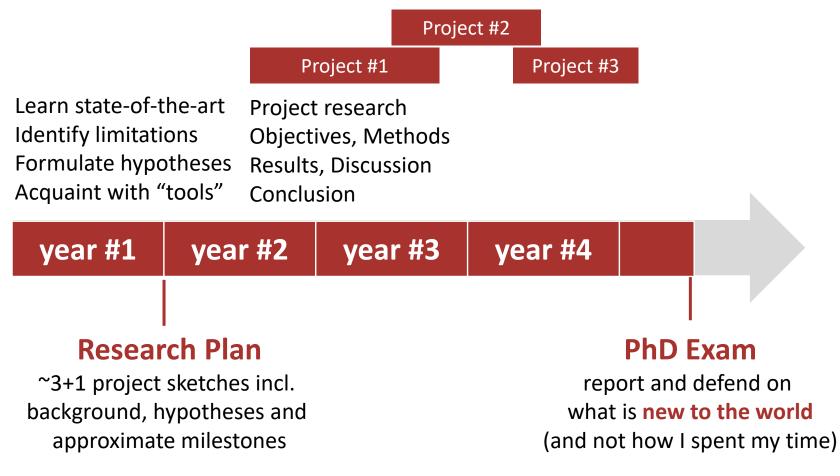
What is new to me versus what is new to the world

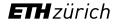
School Undergraduate studies

Graduate studies Research degree (PhD)



How is "Research" structured?





What is a "Research" plan?



Sebastian Kozerke, 06.04.2020

2 Projects

2.1 Custom made porous silicon micro- and nanoparticles for hyperpolarized silicon MRI

The field of silicon particle hyperpolarization mostly relies on commercially available particles and lacks a systematic study of particle properties which require a controlled and reproducible production process. For this project we collaborate with the pharmaceutical physics group from the University of Eastern Finland (UEF) and especially Konstantin Tamarov and agreed on a joint first-authorship for the intended publication. We combine their knowledge about controlled particle production with our measurement expertise. The project aims at a systematic study of parameters influencing the final signal intensity.

Milestones:

- Evaluation of the optimal doping level of the base material
- Comparison of different etching and oxidation methods
- Breakdown to nanoparticles and comparison with the host microparticles
- Comparison with particles from high-energy ball milling

2.2 Dynamic nuclear polarization and simulation of small silicon nanoparticles for magnetic resonance imaging

We have found a silicon sample with 20nm average particle diameter which has build-up and room temperature T_1 times which are very similar to much larger samples (50nm-20 μ m) [6]. These particles might represent a major step towards potential imaging applications, if they can be polarized to a sufficiently high level as these particles cross the blood-brain barrier [12] and possibly possess long circulation times in the body [9, 13].

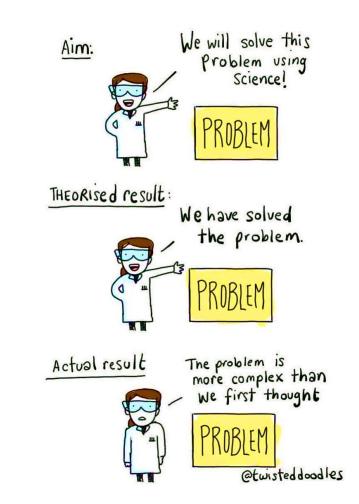
Reported values for the spin diffusion in silicon are estimated to $D = 6 \times 10^{-15} \text{cm}^2 \text{s}^{-1}$ [14]. Using this value to calculate the diffusion time for the particle radius of 10nm, we obtain a build-up time of 170s which is far away from the experimental time of around 20h. Furthermore, the theory does not explain why the decay at room temperature is much faster than decay and build-up at low temperatures if we assume that the spin diffusion is the limiting factor. To this end, microscopic simulations of the spin diffusion should bring new insights and enable a better understanding of this important process.

Studierenden-Nummer student number		(Definitive Zulassung zum Doktorat) Approval of the Research Plan (Full admission to doctoral studies)
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ame of representative of doctoral board	Datum Date	Unterschrift Signature
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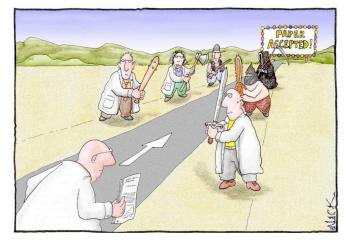
Any "Research" advice?

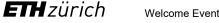
- Be pilot and driver of your projects
- Take ownership and communicate
- Seek feedback and advice from your advisors
- Arrange for regular personal meetings
- Keep work-life balance (despite bumpy roads)



Why "Research" papers?

- A research project is never finished a paper forces you to report, discuss and conclude your current results and relate them to overall progress in the field
- You learn to defend your work objectively and critically during review
 process
- Papers document your progress relative to your peers and hence allow you to gauge your performance
- Papers make your data & results accessible to outside world (PhD theses hardly do)





What is "Annual Feedback Meeting"?

 Non-research focused discussion between supervisor

and doctoral student about his/her experience, perceived strengths and weaknesses

- Recommended to all doctoral students once per year
- Have first Annual Feedback Meeting around time of submission of Research Plan
- www.ee.ethz.ch/studies/forms-and-documents.html

Supervisor	Annual Fe	eedback Me	eting for D	octoral Stu	dies
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currently in he					
		2nd	□ 3rd	□ 4 th	
has started his	/her doctoral studies in			L] 4 th	□ 5 th □ 6 th ye
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Doctoral studies

• What are "doctoral studies"?



A. Doctoral Studies - Credit points

Important:

During your doctoral studies, **a total of at least 12 credits ECTS** must be acquired. At least **one third** must be acquired **outside the field of research**.

For more information and details see: www.ee.ethz.ch/doctoral-studies



Preparing the exam – co-examiners and date

• 3 years after start of your doctorate:

The department's doctoral committee must have approved to of **at least one co-examiner** (if they are not professors of ETH Zurich).

• About 6 to 3 months before the exam:

Define the examination date, the examiners and the thesis topic

NOTE

- In case of external co-examiners, you need approval of department's doctoral committee. The committee meets irregularly (see <u>upcoming dates</u>).
- The (main) **supervisor** must make the request **no later than three months** before the examination date.



Preparing the exam – thesis copy and invitation

- About 2 months before the doctoral exam
 - Agree on an (exact) examination date with the examiner and the co-examiner(s)
 - Notify the department's doctoral administration of the desired date
- At least 12 working days before the doctoral exam the following must be submitted to the ETH doctoral administration
 - The completed <u>registration form</u> with all necessary confirmations
 - A copy of the thesis (bound, spiral or adhesive binding), see the **Doctoral Regulation**
 - (Annex 1 of the Implementation Provisions).
 - A separate CV of the author.

B. Education at ETH and your role in it

Reto Kreuzer

- 1. Education at ETH: BSc/MSc study programmes
- 2. Your interaction with BSc/MSc students
- 3. Teaching as an opportunity



1. Education at ETH Zurich

- **A large offer**: currently 23 Bachelor's and 47 Master's Degree Programmes.
- **Compact** study programmes:

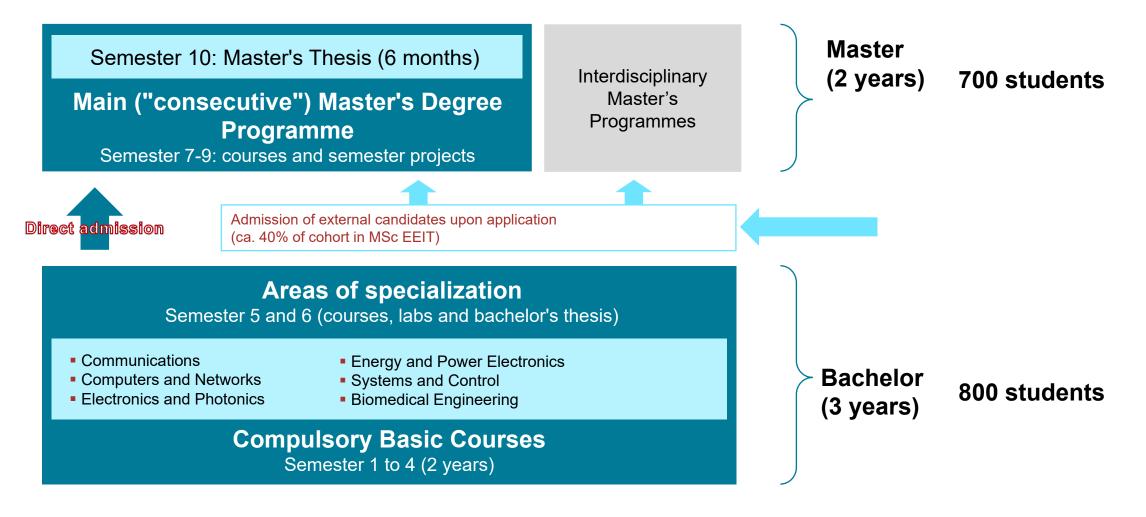
Welcome Event

- Bachelor's Degree Programme: 6 semester (3 years), teaching language mainly German in 1st + 2nd year; partially English in 3rd year
- Master's Degree Programme: 3 to 4 semester (1.5 to 2 years), teaching language mainly English
- A research university: Teaching at ETH is a combination of sound scientific foundations and practical application in industry and research.





Bachelor's and Master's Curriculum at D-ITET



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The Master's Degree Programmes at D-ITET

Programmes offered

 The D-ITET currently offers four MSc programmes (one consecutive and three interdisciplinary): MSc Electrical Engineering and Information Technology, MSc Biomedical Engineering, MSc Energy Science and Technology, MSc Quantum Engineering

Common to all Master's Degree Programmes at D-ITET

- Tutor based programmes: a professor helps students select courses
- 1-2 academic projects (14 weeks, part-time during the semester): Training for master thesis.
- 1 Master's thesis (6 months, full-time): culmination of master's programme

2. Your interaction with undergraduate (BSc/MSc) students

Semester	Course type	Specifics
All	Lectures	Ex-cathedra, usually held by a professor (graded exams)
All	Exercises	Solving exercises, usually in smaller groups, supervised by teaching assistants – doctoral students or senior undergraduate students (teaching assistants)
All	Exams	Various types (written, oral) and schedules (end-of-semester, session), correction mostly by doctoral students
1 to 6	Lab courses	1 compulsory lab per semester (1 st / 2 nd year), afterwards free choice of lab courses. Most labs offered by doctoral students .
3 to 6	Projects & Seminars	Various type of small projects or seminars ranging form a few meetings to all-semester offers, various groups, usually supervised by doctoral students or self-supervised by student TA.
5 and 6	Group Projects	Small third year BSc projects in groups, usually supervised by doctoral students .
7 to 9	Semester Projects	Compulsory at the MSc level, <u>alongside courses</u> , 14 weeks, ca. 25h per week, routine, day- to-day supervision by doctoral students . Official supervision and grading by professor, projects finish with a written report and presentation
9 or 10	Master's Theses	Final project, sometimes at very advanced academic level. Supervision, grading and presentation as in semester projects (doctoral students + professors)
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In a nutshell

- Teaching at ETH is interdisciplinary, courses offered in various programmes / students with different backgrounds – keep in mind when addressing students' questions
- Admission of **students without an ETH-Bachelor's degree** further diversifies student body
- Students' workload in first two years of Bachelor programme is very high but varies largely in third year and higher
- Final exams play a very important role at ETH (few midterms), particular care in grading exams is important
- Semester projects and master's theses are the culmination of each programme, different students need different levels of supervision
- If you encounter problems **don't hesitate to ask!**

Contact: info@ee.ethz.ch

3. Teaching Responsibilities and Opportunities!

- Teaching is a steppingstone in any academic career. Consider it an opportunity!
- There are **many levels of teaching**, starting at rather informal lab courses (P&S), managing exercises, supervision of projects/theses and regular teaching in ex-cathedra classes.
- For teaching in classes you should get a <u>teaching assignment</u> and appear in the course catalogue as lecturer.
- You want to get better at teaching?

Check out the <u>offers</u> of the group for **educational development** like didactic courses, teaching labs, refresh teaching etc.



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Programme

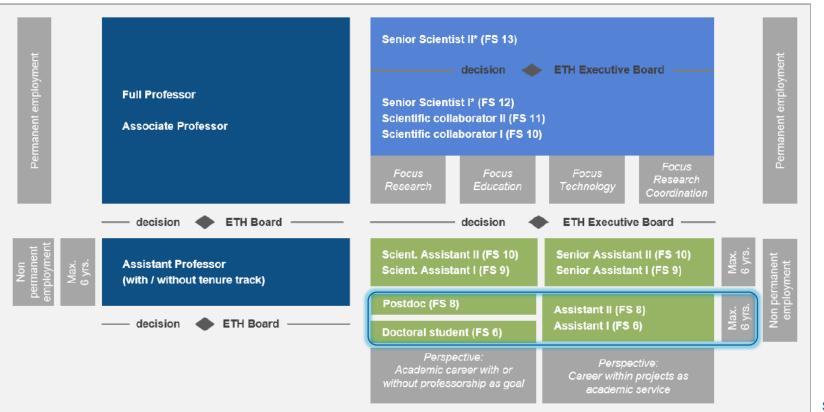
- 1. ETH and D-ITET
- 2. Introduction VMITET
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- 5. Further information & contact persons
- 6. Code of Conduct
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4. Some employment information

Maja Bügler



Development opportunities in science and time constraints



Scientific Functions at ETH Zurich

- ✓ **6 years max**. as Doctoral Student and Postdoc
- ✓ 6 years max. as Senior Assistant or Senior Collaborator

(Defined in: Ordinance governing scientific employees of the Swiss Federal Institute of Technology Zurich)

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Salary

✓ Fixed rates for Doctoral students / Postdocs / Assistants

- ✓ Set by Executive Board of ETH / ETH Council / Swiss Federal Council to be aligned with SNF
- ✓ Payment is in 12 monthly instalments

✓ Automatic increase every year until 3rd-year-rate

> Policy D-ITET:

- Each Institute or Professorship can select the fixed rate(s)
- > This must be applied consistently for all group members

Employees with children of minor age or children in education receive a family allowance



Legal and contract details

Contract type	Fixed-term
Contract duration	Generally 1 year, renewable
Probation period	Probation period of 3 month (if contractually specific)
Employment level	100% (part-time employment only in special cases)
Termination of contract	On contract end Early termination by mutual agreement

Specifics: Matriculation and employment are two different legal situations

Ordinance governing scientific employees of the Swiss Federal Institute of Technology Zurich https://ethz.ch/services/en/employment-and-work/employment/employment-salary.html



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Vacation and Absences Regulation



- Duty to register absences in <u>ETHIS</u>
 - ✓ Obligation for Scientific Personnel: Negative time management only (vacation and absences)
- ✓ 5 weeks for employees up to age 49
- ✓ Vacation days has to be taken in the year the entitlement arises, at least once 2 weeks in a row
- ✓ You supervisor is allowed to decide when vacations can be taken
 - > Plan your vacations early and get the OK in advance!
- ✓ Vacations are for recovery
- ✓ Supervisors are not allowed to reduce vacation days of their employees
- Employees must submit a doctor's certificate from the 4rd day of absence as a result of illness or accident

Regulations for the recording of working time and absences Personnel Law ETH domain

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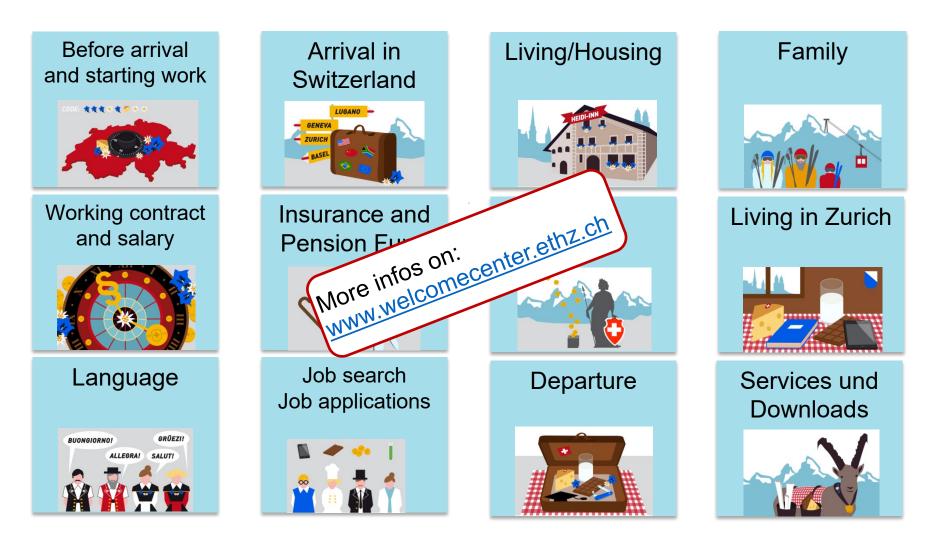
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5. Further information and contact persons

- Maja Bügler
- Reto Kreuzer



ETH Welcome Center



ETH zürich

Human Resources



Maja Bügler (ETZ H86) personnel manager D-ITET <u>maja.buegler@hr.ethz.ch</u> 044 633 94 98 (Tuesday – Friday)

Contact person for: personnel matters, labour law issues, development, conflicts, consulting



Denise Siegrist (TUR D17) personnel administration D-ITET <u>denise.siegrist@hr.ethz.ch</u> 044 632 09 48 (Monday – Thursday)

Contact person for: residence and work permits, family allowance, social insurance, accident and sickness



Doctoral administration



Reto Kreuzer (ETZ H 83) Head of student administration D-ITET reto.kreuzer@ee.ethz.ch 044 632 0815 (upon appointment)

Contact person for: Student counselling, curricula questions and regulations



Yasemin Tomaschett (ETZ H 85) Doctoral administration D-ITET <u>doktorat@ee.ethz.ch</u> 044 632 3336 (Monday, Wednesday, Thursday) → Ask your supervisor and the administration/secretary of your lab for inside knowledge!

Contact person for:

All administrative steps regarding doctoral programme from official application to doctoral exam



Support, Contact and Advice Services

Support

✤ As a first point of contact, you can always turn to our <u>designated D-ITET contact person</u>

Psychological Counselling Service

Free of charge <u>service</u> open to all students and doctoral students at the University of Zurich or ETH Zurich

External / ETH advice and conciliation service respect

Provides all members of ETH with advice and support regarding bullying, harassment and discrimination

Ombudsperson and confidants

 General contact point for conflicts and issues concerning integrity and scientific misconduct

further contacts: https://respekt.ethz.ch/en/kontakt-und-fachstellen.html



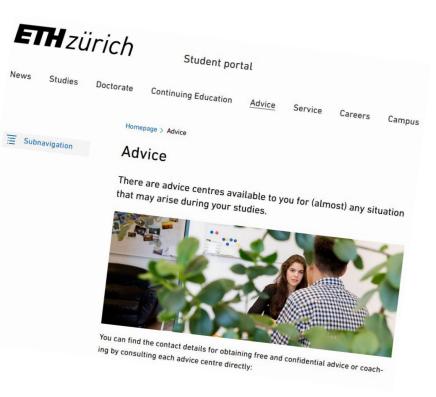


More contacts for advice

- Student advisory service/Coaching
- Studies and health
- Disability advisory service
- Studying as a parent
- Studying and professional sports
- Legal advice
- etc.

More information:

>>>> https://www.ethz.ch/students/en/advice.html



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6. Code of Conduct

Prof. Vanessa Wood



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. Vanessa Wood, Head of Department

Information on our website, flyer

- Our principles, what is "inappropriate behavior" etc. ٠
- How to react to inappropriate behavior •
- Support, contact people ٠



UMMAN row Idential or unitertitental discrimination — , asso of actual or altributed group-specific characteristics s y, religion, ideology, physical ability, sexual identity, and prof — device Constitution of the Swiss Confederation, Art. 8, p — 201 NAPPROPRIATE REHAVIOUR IN STUDY AND RESEARCH ation in detail singly or unknowingly incorrect behavi inewingly or unknowingly incomes owners rregularities in examinations. Not giving proper credit to others' ideas. Preventionately less contribution to group: curate statements about one's o

of the domartiment, controlling of original

- If you are a victim of inappropriate behaviour, you should resp has All conflicts are reached in a fai A slow response makes it more difficult to convey that the be are inappropriate and unwelcome. It must be understood that y such behaviour. If you are silent or passive, this can be interpre of the inappropriate actions and behaviour.

If verbal communication is unsuccessful, inform the harasser i inappropriate behaviour must stop. See sample letter to some the website: www.ee.ethz.ch/code-of-conduct.

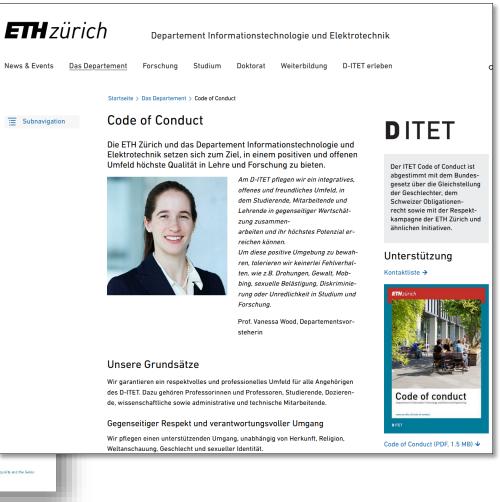
Document your situation. Keeping a detailed log in which you (i.e. the person harassing you, date, time, place, words, gestu witnesses) can make it easier to prove inappropriate behavio

How to react to inappropriate behavoiu

Depending on the type of inappropriate behaviour, ETH re mplaints can be escalated. T list can advise on this matter

eople who accuse innocent people of inappropriate behavi insequences as those who harass others.

ase find more information on www.ee.ethz.ch/cede-of-cenduc The ITET Code of Conduct is in line with the Federal Act on Gender Equality and the Swiss as well as the ETH Respect campaign





Departement Informationstechnologie und Elektrotechnik

Thank you!