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CONFINALE

# [M]

# [MindPhair]

Job Fair for Mathematicians, Physicists and  
Computational Scientists at ETH

March 30<sup>th</sup> 2021, 10:00-18:00

## Take a deep breath, and marvel at the Tech-Talks at [MindPhair]

Monday 29.03	UBS	11:00
	Bank Vontobel	13:00
	Hamilton Medical	14:00
	Polariton	15:00
	Qnami	16:00
	AXPO	17:00
Tuesday 30.03	Confinale	11:00
	D-One	13:00
	Meteo Swiss	14:00
	Allianz	15:00
	SBB CFF FFS	16:00
	SIG	17:00

## Make sure you don't miss out on these incredible opportunities!



## Grusswort der Rektorin

Ein Studium der Mathematik oder der Physik ist eine solide Basis für einen weiten Fächer von Berufsmöglichkeiten. Mathematikerinnen und Mathematiker arbeiten als Forscherinnen und als Lehrer an Hochschulen, Fachhochschulen und Mittelschulen. Man trifft sie in Versicherungen, immer mehr in Banken und in der Industrie, in der Software-Entwicklung, bei der Planung und Optimierung von Betriebsabläufen oder als Statistiker in öffentlichen Ämtern. Beide Typen von Absolventinnen und Absolventen engagieren sich mit Modellierung von komplexen Zusammenhängen. Physikerinnen und Physiker sind nach dem Studium oft in der Forschung in industriellen oder staatlichen Laboratorien tätig. Sie haben so unterschiedliche Aufgaben wie etwa die Untersuchung von Prozessen in der Atmosphäre, die Erforschung neuer Materialien, die Entwicklung von Techniken im Bereich atomarer Dimensionen oder die Anwendung energiereicher Strahlen in der Medizin. Weil Physikerinnen und Physiker typischerweise dort arbeiten, wo vorerst Fragen gestellt, Erfahrungen gesammelt und Methoden entwickelt werden müssen, sind ihre Fähigkeiten auch in vielen anderen Berufsfeldern sehr geschätzt.

Um den Studierenden der Mathematik und Physik für den Berufseinstieg die besten Optionen aufzuzeigen und um ihnen eine fundierte Entscheidung zu



ermöglichen, findet regelmässig die MindPhair statt. Sie ist sowohl für die ETH-Studierenden als auch für die an unseren Absolventinnen und Absolventen interessierten Unternehmen und Bildungsinstitutionen eine ausgezeichnete Kontakt-Drehscheibe. Für beide Seiten ist die persönliche Begegnung von zentraler Bedeutung. Die MindPhair bietet dafür einen ausgezeichneten Rahmen mit einer Fülle von Informations- und Austauschmöglichkeiten.

Ich wünsche den Firmenvertreterinnen und -vertretern sowie den Studierenden an der MindPhair 2021 viele zukunftsweisende und lohnende Kontakte!

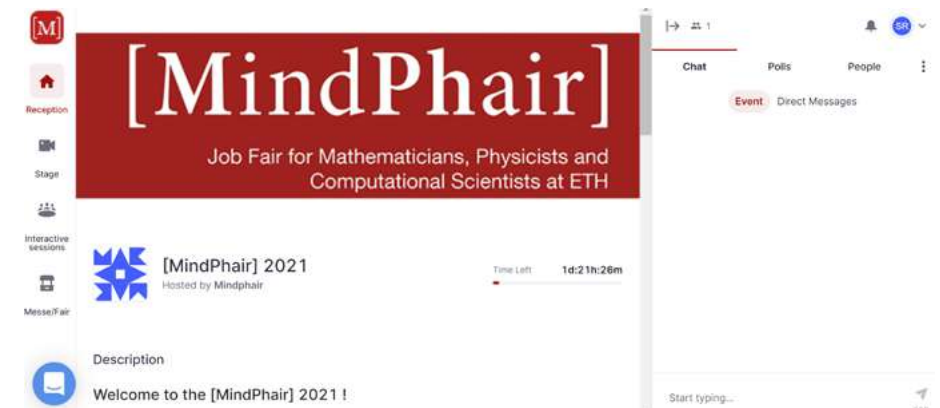
Sarah Springman  
Rektorin der ETH Zürich

## A digital [MindPhair], what is that?

Last year, the [MindPhair] sadly had to be cancelled only a few days before its scheduled date, much to the disappointment of all involved. And this March, the Corona-situation does not look entirely different, but we did not let that stop us from organizing a terrific event, following the only path that was left: holding it online.

So this year, we will have a virtual fair, using the platform Hopin. It will allow you to browse the booths of different companies and chat with their representatives, just like it used to be. All you need is a computer, internet connection, and a bit of courage. Because note: Representatives cannot lure you in conversation anymore as you walk by... You will have to start talking to them!

To participate, you only have to book the date! Every VMP-student will receive an invite via a magic link a week prior to the event. By simply clicking on this link, a Hopin-account will be created for you, with which you can join the event on hopin.com. Once you joined the [MindPhair] event, you can decide freely whether you just want to roam the expo and visit the different booths, or join more specific talks different companies are going to give, each lasting roughly 45 min. If you are very motivated, you could also check out our workshops below, and see whether you seriously consider signing up for one!



Preview of the reception page of the [MindPhair] event. On the left you can see the tabs for the different modules of [MindPhair]. The actual fair containing the company booths can be found under „Messe/Fair“.

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## Vorwort des Präsidenten

Liebe Besucher,

Ich freue mich sehr darüber, Sie auch dieses Jahr zu einer neuen Ausgabe der [MindPhair] begrüßen zu dürfen. Dass diese nun schon das achte Mal stattfindet, ist keine Selbstverständlichkeit. Nachdem wir letztes Jahr die [MindPhair] aufgrund der Pandemie sehr kurzfristig absagen mussten, haben wir dieses Jahr umgesattelt, und sind nun stolz, euch die [MindPhair] in digitaler Form präsentieren zu können. Zwangsläufig wird diese einen anderen Charakter haben als die live-Messen der letzten Jahre, doch hat das neue Format auch seine Vorteile. Wir sind überzeugt, dass die [MindPhair] auch dieses Jahr eine ausgezeichnete Gelegenheit sein wird, sich über mögliche Zukunftsperspektiven zu informieren und erste Kontakte mit Vertretern von Firmen aus der Wirtschaft zu knüpfen.

So vielfältig wie die zukünftigen Aufgaben von Mathematikerinnen und Physikern ist auch die Zusammensetzung der 26 Unternehmen, die wir dieses Jahr an der [MindPhair] begrüßen dürfen. Wie bereits zur Tradition geworden ist, haben wir von Grossbanken über Beratungsfirmen zu grossen High-Tech Unternehmen und kleinen aber feinen Start-ups eine breite Palette an Firmen



zu bieten, die sich freuen, euch mehr über ihre Berufsfelder zu erzählen.

Auch finden parallel zur Messe eine Vielzahl von Talks und Workshops statt, bei denen ihr aktuelle Themen vertiefen und auch selbst Hand anlegen könnt. Zusätzlich besteht die Möglichkeit, uns vom [MindPhair]-Team eure CVs zukommen zu lassen, die wir dann an Firmen eurer Interessensgruppe weiterleiten, um euch direkt in Kontakt zu bringen.

Ich bedanke mich bei allen, die mitgeholfen habe, diese nicht-triviale [MindPhair] Realität werden zu lassen, und wünsche euch allen viel Spass und viel Erfolg bei der Suche nach einer Anstellung, einem Praktikum, oder einfach nur neuen Kontakten und interessanten Begegnungen!

Manuel



UBS

Title	Engineering is Mandatory, the Rest Comes Naturally
Speaker	Stefan Arn (UBS, Head of Technology for Global Wealth Management Switzerland & International)
Description	<p>Engineering is mandatory, the rest comes naturally</p> <p>Before joining UBS, I founded my own software company. Before that, I completed an apprenticeship as a chemist and graduated with a Master's degree in computer science from ETH Zurich. Today, I'm leading a technology organization with over 5000 employees and a yearly budget in the high three-digit million range. In this session, I will give you some personal insights into the exciting combination of banking and technology.</p> <p>Sprache: Je nach Publikum entweder Englisch oder Deutsch</p>

29.03.2021  
11:00



Bank Vontobel

Title	How is AI Changing Finance?
Speaker	Francois Rüf, ETH alumnus, PhD Physics
Description	<p>Are you curious to hear more about how AI is currently changing the financial world?</p> <p>Join us for this talk with Francois Rüf, ETH Alumn and Head of Data, AI and Machine Learning at Vontobel, who will share his view on the topic and some real life examples.</p> <p>In addition, Alice Thesling, ETH Alumna and Trainee Data Science and Data Engineering, will share insights of her experience during her Trainee program at Vontobel.</p> <p>Learn how we tackle the biggest problems in finance with a highly skilled, international and diverse AI and data team. Get some insights how it feels like to work in a team that challenges the status quo!</p> <p>Vontobel is a globally operating investment player in Zurich. We specialize in wealth management, active asset management and investment solutions. Next to Data Science and Data Engineering positions, we also offer various tech-focused roles within our Trainee Program. At the end of the talk, our Trainee Program Manager Aline Biggel will be sharing a 5 min overview.</p>

29.03.2021  
13:00

## Talks



### Hamilton Medical



Title	Digitalizing Medical Devices
Speaker	Christian Hefti
Description	<p>Introduction to Hamilton / Hamilton Medical (5-10 min.)</p> <p>Walkthrough – How connectivity has been introduced to Hamilton Medical Ventilators (25-30 min.) We'll be showing the newly introduced connectivity products and recap some milestones of the development of the connectivity solution for Hamilton Medical.</p> <p>Questions (5-15 min.)</p>

29.03.2021  
14:00

## Talks



### Polariton



Title	The Golden Link – Micrometer-Scale Plasmonics for Optical Communications
Speaker	Claudia Hössbacher
Description	<p>Our world is filling with digital devices and modern lifestyle allows people to exchange more and more data via the Internet. Polariton's objective is to overcome the current interconnect bottleneck by a new way to impart information using micrometer-scale plasmonics, which allows a higher volume of information flow by supporting a wider spectrum of frequencies. Natural applications are in next-generation optical communication links as well as sensing. In this talk, we will dive deeply into the technology, discuss progress and challenges and how to turn technology into a viable product.</p>

29.03.2021  
15:00

## Talks



Qnami

Title

Quantum Sensors in the Industry

Speaker

Marcelo González

Description

Quantum Technologies are gaining traction as they present newer and better solution to current applications, one of the many reasons why there is an immense amount of funding that surrounds them. Quantum sensing is at the core of these quantum technologies, yet some people are unaware of their advantages, where can they be found and how do they work. Qnami, a Swiss innovative start-up, is trying to bring all of this to the world and make quantum easy. If you are looking to learn how a substitutional nitrogen embedded around carbon atoms can serve as a quantum sensor and how this can help in various industries, do not hesitate and join this talk and maybe even our quantum wave.

29.03.2021  
16:00

## Talks



AxpO

Title

Sustainable, Innovative and Reliable: A virtual journey through the origination business

Speaker

Vlatka Komaric

Description

Have you ever wondered how the energy supply of a wind farm ends up where the consumers need it? How is it possible for an energy-intensive industry company in the UK, for example, to choose renewable energy sources and have it delivered from Norway? Vlatka Komaric, Head Quantitative Risk Management at Axpo, will introduce you to the world of Axpo's tailor-made energy products in 39 markets, power purchasing agreements (PPA) and the process of origination during her talk from 17:00-17:45 on March 29th.

29.03.2021  
17:00





## Confinale

**CONFINALE**  
Digital Banking applied

Title

IT Consulting: Entwickle smarte Algorithmen als Physiker/Ingenieur

Speaker

Herr Roland Staub/CEO&Partner

Description

Smarte Algorithmen sollen die spezifischen Wünsche und Bedürfnisse jedes einzelnen Kunden berücksichtigen und die passenden Finanzprodukte auswählen. Dabei wecken Anlageideen für nachhaltige Produkte und innovative Technologien die Emotionen einer bestimmten Kundengruppe. In der Applikation erfolgt der Zuordnungsprozess mittels komplexer Algorithmen. Die resultierende Anlageempfehlung wird individuell über den passenden digitalen Kanal kommuniziert.

Gerne zeigen wir auf, wie wir für diese Anforderungen eine innovative Lösung entwickeln.

30.03.2020  
11:00



## D|ONE

**D|ONE**  
WE MAKE SENSE.

Title

How to Find the Nut in the Haystack.  
An AI-supported Product Solution Advisor for Fasteners.

Speaker

Philipp Thomann

Description



Phones, coffee machines, cars, and airplanes - it's all about screws, nuts, and bolts! What is the best fastening element for your brilliant new product among the hundred thousands of products, each with different qualities, application domains, and specifications?

Together with the experts at one of the market leaders in fastening we created a data- and AI-driven "Product Solution Advisor" based on information in text documents combined with structured data as well as expert knowledge.

We will present the journey we took together: NLP machine learning models, the integration into a search platform, the extension with a graph-based ontology, the design of the UI and the roll-out.

30.03.2020  
13:00

## Talks






### Meteo Swiss

Title	Insight Into the Numerical Weather Prediction at MeteoSwiss
Speaker	Xavier Lapillonne (Teamleader Numerical Prediction, computing)
Description	Accurate and timely delivery of weather forecast are essential for many human activities. MeteoSwiss, the Swiss national weather service, is among other responsible for developing and running a so called numerical weather prediction system. In this talk we present the different aspects from collecting observations to the model developments required to produce such numerical forecast. We also discuss the High Performance Computing component of such a time critical application and show how Graphical Processing Units (GPUs) are used at MeteoSwiss. Finally we provide an overview of the production line including Post-processing aspects.

30.03.2021  
14:00

## Talks

### Allianz Suisse

Title	How a Mathematician survived in Insurance (even happily)
Speaker	Dr. Christian Graf, Senior Actuary
Description	Insurance offers a variety of job opportunities for students with analytical skills. A mathematician who - with some mixed feelings - changed from doing research in knot theory to being a non-life pricing actuary at Allianz Suisse explains his work and why it was the right choice.

30.03.2021  
15:00





## SBB CFF FFS



Title	Get Switzerland Moving: Your future perspectives in the Swiss railway industry.
Speaker	Dr. Ambra Toletti, IT Business analyst Reto Ramseier, Trainee, as well as Joel Goelff and Julie Brunner
Description	Have you ever wondered how algorithms can contribute in shaping the Swiss railway system? Find out what your daily business at Switzerland's largest travel and transport company as a computer scientist, physicist or mathematician might look like. Join our talk and get exclusive insights into our exciting graduate programmes, meaningful tasks in innovative projects and the fascinating work environment!

30.03.2021  
16:00



## SIG Susquehanna



Title	Machine Learning in Quantitative Finance
Speaker	Thomas Caye
Description	Financial markets are ever-evolving structures, always changing, and bringing new challenges, but fortunately, the arsenal of techniques and methods at the disposition of the data analyst is growing too. Leveraging these techniques to find profitable patterns in enormous amount of data, and adapting them into production algorithms, are some of the tasks that make the life of a quantitative researcher exciting. Join us to learn more about how state-of-the-art research enters the day-to-day world.

30.03.2021  
17:00



## NLPeasy: Harnessing the Power of Unstructured Data

Description: Knowledge in most organisations is often only available as unstructured text in E-Mails, CRM entries, wiki articles etc. Harnessing this knowledge and making it available to the users that need it most is a challenging problem. Advances in machine learning and, in particular, NLP open new possibilities for doing intelligent and efficient knowledge management. In this 2-hour hands-on tutorial we will present how to use our open source software NLPeasy: quickly setup Pandas-based pipelines, enhanced with ML-Methods and pre-trained models (e.g. word embeddings, sentiment analysis). The results can then be saved in Elasticsearch, and Kibana dashboards can be automatically generated to explore the texts and results. You will set up a simple yet powerful NLP pipeline and ingest texts into Elasticsearch. Then you will explore generated Kibana Dashboards for visualisation and adapt these.

Prerequisites: Jupyter, Pandas, internet access

Time and date	26.03, 10:00-12:00 am
Speakers	Phillip Thomann, Jacqueline Stählen
Maximum participants	No limit
Registration	<a href="https://vmp.ethz.ch/en/events/">https://vmp.ethz.ch/en/events/</a>



## IMC Trading Event

We'll challenge you with an assignment that will help you see how your skills apply to financial markets. Together with two of our traders/developers, you'll develop a trading strategy and test it on real-world data - a perfect opportunity to better understand the complexities in designing trading algorithms, and what it's like to do this at IMC. We will build our prototype in Python, so please be prepared. If you have no experience with Python then MATLAB will work as well. We'll also use the opportunity to give you more information about trading and technology at IMC. And also give you a chance to ask all your questions about our business, life at IMC and more. We hope you're as excited to meet us (virtually) as we are to meet you!

Prerequisites: Python or MATLAB, internet access

Time and date	31.03, 10:00-12:00 am
Speakers	TBA
Maximum participants	15
Registration	<a href="https://vmp.ethz.ch/en/events/">https://vmp.ethz.ch/en/events/</a>



## FlowTraders: Trading Game and ETF Lecture

During our interactive workshop, you will gain more insight into the world of trading provided by a Trader and Recruiter. This is your chance to ask all of your questions and to find out what a day in the life of a trader is like. Our Trader will provide a mini lecture on ETFs and will share information about our core-business with you. You will also learn about our company culture, cutting edge technology and how you can become a trader yourself! At the end of the in-house day, we will play a trading game. The trading game is an exciting opportunity to compete with your fellow students and see if you may have what it takes to become a trader. Your mathematical and analytical skills will be put to the test. We will end the workshop with an interactive Q&A session.

Time and date	30.03, 13:00am
Speakers	TBA
Maximum participants	50
Registration	<a href="https://vmp.ethz.ch/en/events/">https://vmp.ethz.ch/en/events/</a>



### Company Description

Axpo is Switzerland's largest producer of renewable energy and an international leader in energy trading and the commercialisation of solar and wind power. 5000 employees combine experience and expertise with a passion for innovation. In over 30 countries in Europe, Asia and the USA, Axpo develops innovative energy solutions based on state-of-the-art technologies for its customers. In this way, we open up perspectives and generate new impulses for a life full of energy. Today we are setting the course for tomorrow's electricity supply: as the largest producer of renewable energies in Switzerland, we are making sustainable investments in the technologies of the future. Our focus is on hydropower, wind and biomass at optimal locations. On its way into this future, Axpo is thus securing a consistently sustainable and

climate-friendly energy supply for its customers in Switzerland. Today, Axpo ranks among the leading energy traders worldwide. The business of tailor-made energy solutions for customers opens up a world of opportunity for Axpo. Do you want to shape the future of the energy sector? Join the Axpo Group!

### Philosophy

Reliability, sustainability and innovation. These values have shaped Axpo's over 100-year history. We continue to live them today in order to move the company forward together. As a reliable partner, Axpo has earned trust and credibility. Environmental, economic and social sustainability is deeply rooted in our business activities. Innovation and pioneering spirit are anchored in Axpo's DNA and the daily search for even better solutions is our passion.

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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# Full of energy into the future

As the largest Swiss producer of renewable energies and an international leader in energy trading and the marketing of solar and wind power, we offer students, doctoral candidates and university graduates the best conditions for a challenging and varied start to their careers. [axpo.com/career](https://axpo.com/career)



## Company Description

D ONE is one of the leading Swiss companies for data, machine learning and artificial intelligence with national and international customers and a team of 40 experts for data driven value creation. D ONE designs and implements projects which create value from data, acts as guide on the journey to a data driven enterprise, and helps companies to shape processes, organizational structure, and company culture, leveraging the hands-on know how along the entire value chain. D ONE was founded 2005 by Simon Hefi, Hans Peter Gränicher and Netcetera AG and actively invests in start-ups in the area of data. D ONE is Microsoft partner with focus data & artificial intelligence.

## Contact for application

<https://d-one.ai/career>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



## Philosophy

We are building D ONE as a world-class company. Our ambition: to be a talent heaven and a leading voice in data-driven value creation. We define success by our client's success. To pursue this goal, we combine our success-critical competencies:

- intellectual agility
- understanding client's needs
- clever and creative team play
- getting the job done
- to deliver outstanding results with high business value. Presented in a comprehensible form, achieved in an easy-to-do-business-with way.

# WE HIRE SMARTIES.

Our work, data-driven value creation, requires bright minds. Getting to the bottom of things, thinking out of the box, and using the power of the question are key disciplines which we seek and you have.

We bet that you will love the high signal / low noise environment, smooth administration, and absence of politics that D ONE offers.

If you strive for challenging work, an inspiring team and excellent career perspectives: call us (Hans Peter Gränicher, +41 79 457 28 74).

### Talk:

How to find the nut in the haystack

30.03.2021  
13:00 - 13:45

### Workshop:

NLPeasy -  
Harnessing the  
Power of  
Unstructured Data

26.03.2021  
10:00 - 12:00



# CONFINALE

Digital Banking applied

## Company Description

New technologies, new regulatory requirements and new forms of customer behaviour are constantly presenting banks with new challenges in digitizing their processes. As an IT consulting and software development company specializing in the banking sector, we offer our customers the appropriate solutions. Our focus is on tax, compliance, wealth management and credit transactions. We either develop new functionalities in the existing core banking system or integrate our own applications or those developed by third parties. With our consulting and development teams, we cover the entire process over the course of an IT project. The range

of services extends from the consulting and conception phase, through the analysis and design phase, to actual development, implementation and IT maintenance.

## Philosophy

We take full responsibility for what we do and do things the proper way. Reliability and transparency towards our customers distinguish us from others. We promote the strengths of each individual employee. We only achieve top results as a team. Company events connect us and are fun.

## Contact for application

career@confinale.ch

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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You can expect varied and challenging tasks from our internationally operating customers. Your interdisciplinary IT and business knowledge will be expanded.

## YOUR SKILLS & EXPERIENCES

- \_ Above-average university degree (Bachelor/Master/PhD) in physics, computer science, mathematics, industrial engineering or comparable subjects
- \_ IT affinity - practical knowledge of relational databases (Oracle) and programming experience (PL/SQL) are advantageous
- \_ Flexibility, resilience and enjoyment of project work
- \_ Your are strong in analyzing and interested in a continuous training
- \_ Good knowledge of German is an advantage, good knowledge of English is necessary

## YOUR MAIN TASKS

- \_ Collaboration in a team of specialists for the implementation of the Avaloq Banking System in selected specialist areas
- \_ Development of innovative front-end solutions for banks
- \_ Design and parameterization of different business models according to the needs of our costumers
- \_ Writing business or technical specifications
- \_ Training of the users

## OUR OFFER

- \_ Introductory training in your future area of responsibility (initial training in Zurich approx. 1 month)
- \_ Opportunity to take over management tasks in project teams
- \_ Attractive compensation and social benefits as well as continuing education opportunities

## CONTACT

We are looking forward to receive your complete application via e-mail:

career@confinale.ch



### Company Description

At PwC, our purpose is to build trust in society and solve important problems. We create value for both our people and clients in assurance, advisory and tax services with over 3,300 employees and partners in 14 locations in Switzerland and one in the Principality of Liechtenstein.

Do you want to make an impact and shape the future of a leading professional services firm? Are you passionate and ready to embrace change? Then you've got what it takes to reimagine the possible.

### Contact for application

Apply via [www.pwc.ch/careers](http://www.pwc.ch/careers)

If you have any questions, please reach out to our recruitment team: [recruitment@ch.pwc.com](mailto:recruitment@ch.pwc.com), 058 792 22 22

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



### Philosophy

Everyone's career path is unique. That's why PwC offers countless personal and professional development opportunities that fit with your aspirations, supporting you to grow your own way – so you can become everything you want to be and more.



Are you passionate and ready to shape the future?

Then you've got what it takes to reimagine the possible.

Apply now at [www.pwc.ch/careers](http://www.pwc.ch/careers)



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## Company Description

SIG is a global quantitative trading firm founded with an entrepreneurial mindset and a rigorous analytical approach to decision making. We commit our own capital to trade financial products around the world. Building virtually all of our own trading technology from scratch, we are leaders and innovators in high performance, low latency trading. Our traders, quants, developers, and systems engineers work side by side to develop and implement our trading strategies. Each individual brings their unique expertise every day to help us make optimal decisions in the global financial markets.

## Contact for application

APPLY NOW: <https://careers.sig.com/>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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## Philosophy

SIG's Quantitative Analyst Programme is a unique opportunity for PhD graduates, straight from academia to work in an industry setting and develop the skills needed to build a successful career as a Quantitative Research Analyst. As a quant at SIG, you will gain insight into the world of quantitative trading, while working on research projects across a range of topics, like machine learning, anomaly detection, and many probability puzzles found in pricing and trading.



## THE QUANTITATIVE ANALYST PROGRAMME

You will be exposed to hands-on practical projects from the beginning of the programme. You will also be assigned to a trading desk to directly support the research, development, and monitoring of trading strategies.

This programme is targeted to PhD students and Master students with research experience.

## DURING THE PROGRAMME, YOU WILL:

- Receive structured training on Python and programming in a collaborative production environment
- Establish meaningful relations among financial products through statistical analysis and mathematical modelling
- Generate, test, and challenge hypotheses to create or improve complex trading strategies
- Work closely with traders to monitor and to improve upon existing strategies and to identify new areas of research
- Collaborate with software developers to build trading solutions that execute large-scale strategies independent of human interaction
- Receive one-to-one mentorship with a senior member of the Quant team
- Gain exposure to large-scale computing resources and other leading-edge technology
- Attend trading classes to explore the wide range of products traded by SIG





### Company Description

IMC is a leading global market maker, using algorithmic trading and advanced technology to buy and sell securities on multiple trading venues worldwide. We provide liquidity to the financial markets, driving efficiencies for buyers and sellers. We operate globally from offices in Europe, the US and Asia Pacific. Our employees work closely together in multidisciplinary teams, making our success possible. At IMC, technology is not a department, it is at the heart of everything we do. Our technologists push the limits of possibility, and then look beyond. In our fast-paced environment, short feedback loops mean projects worked on in the morning can enter production the next day. Although our traders come from many backgrounds they all have one thing in common: they are at their best solving complex problems. Their insight into global events, market shifts and pricing ensure we are trading in the right place, at the right time.

### Philosophy

IMC was founded in 1989 by two traders working on the floor of the Amsterdam Equity Options Exchange. While today's industry is highly automated, back then trading was executed on the exchange floor by traders manually calculating the price to buy or sell. IMC was among the first to spot the importance of technology and innovation in the evolution of market making and invested early, helping shape the future of trading. That entrepreneurial spirit and innovative culture still drives IMC, which stands for International Marketmaker's Combination.

In 30 years we've grown internationally, trading primarily on the basis of data and algorithms, and using our execution platform to provide liquidity to financial markets globally.

### Contact for application

<https://www.imc.com/eu/careers/graduates>

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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### ABOUT IMC

IMC is a trading firm with technology at its heart. Since 1989, we've embraced the power of technology to rapidly advance our trading models. Pioneers in the industry, technology is now the lifeblood of how we operate. Whether it's the markets, data, software or hardware, we're constantly pushing ourselves and our technology further. We're constantly challenging, adapting and redesigning to create world-class solutions that can outsmart the best Traders and Developers in the world.

Start discovering a dynamic new world. Where you'll learn just how far you can go and how fast you can get there. Get ready to be challenged beyond your expectations. You'll have the highest levels of freedom and responsibility. A chance to put your intellect to the test while indulging your love for patterns and data, mathematical riddles, and working in the space between the abstract and reality. It's an exciting, fast, highly complex and fun place to kickstart your career and watch it take off like you never thought possible.

WE ARE  
HIRING



Discover IMC for a 360 tour and interactive content



CAREERS.IMC.COM



# die Mobiliar

## Company Description

Die Mobiliar ist mit ihren Rund 5700 Mitarbeitenden die persönlichste Versicherung der Schweiz: Wir sind dort, wo unsere Kunden sind - und da, wenn es darauf ankommt. Als genossenschaftlich verankertes Unternehmen mit Direktionsstandorten in Bern, Nyon und Zürich engagieren wir uns für unsere Kunden, die Gesellschaft und die Schweiz. So sind wir ein sicherer Wert im Schweizer Alltag und gestalten die Zukunft aktiv mit. Seit 1826, heute und morgen - was immer kommt.

## Philosophy

Wir halten, was wir versprechen. Wir sind die persönlichste Versicherung der Schweiz - wir handeln menschlich, nah und verantwortungsvoll. Unsere Kunden leben ihr Leben vertrauensvoll. Wenn etwas passiert, sind wir da und helfen rasch und unkompliziert. Wir alle sind Botschafter der Mobiliar und lösen dieses Versprechen ein. Jeden Tag. Bei allem, was wir tun.

## Contact for application

[mobiliar.ch/jobs](https://mobiliar.ch/jobs)

[berufseinstieg@mobiliar.ch](mailto:berufseinstieg@mobiliar.ch)

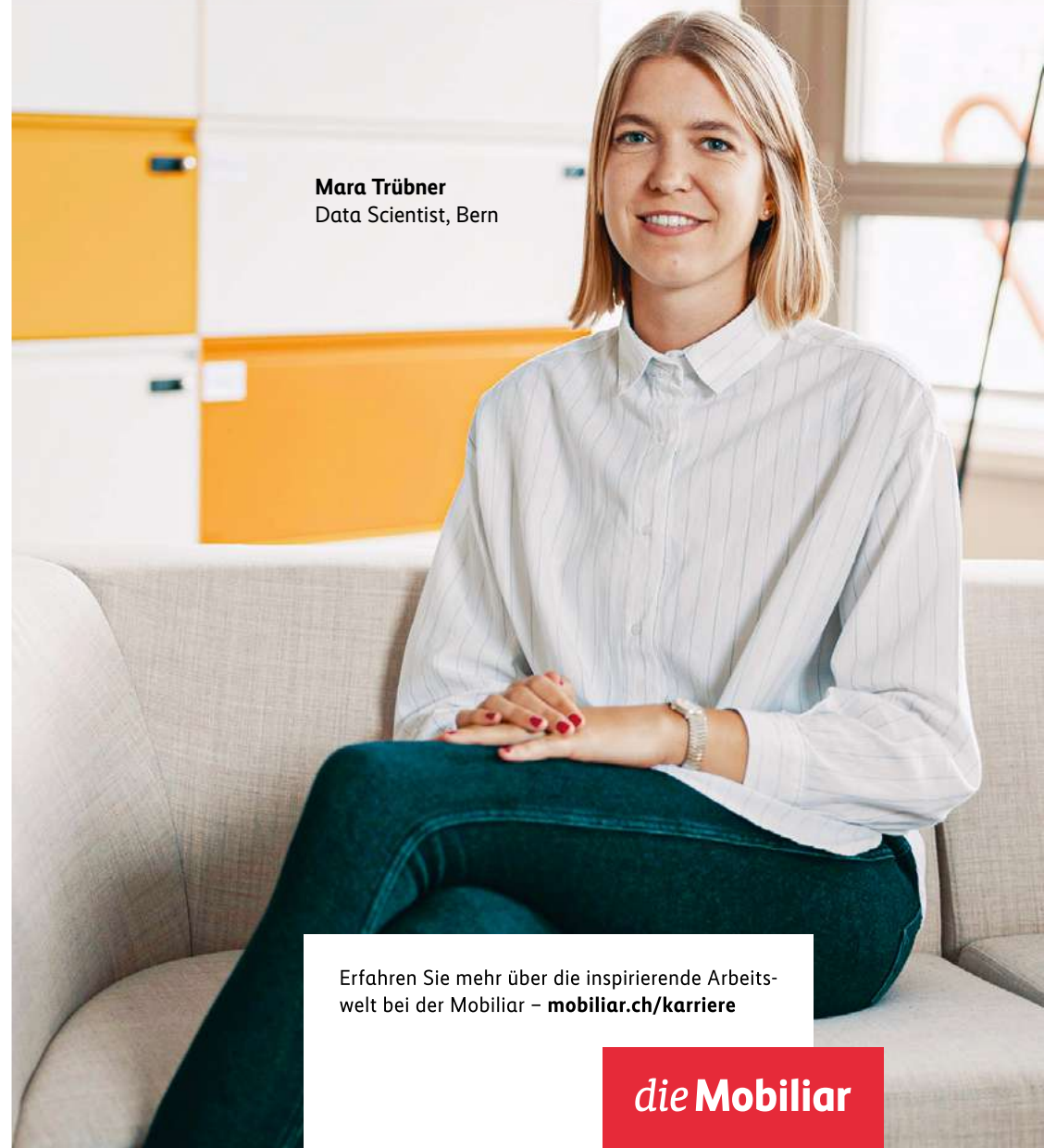
## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



## «Wie meine Datenanalysen helfen, unsere Kundinnen und Kunden richtig zu verstehen?»

**Mara Trübner**  
Data Scientist, Bern



Erfahren Sie mehr über die inspirierende Arbeitswelt bei der Mobiliar – [mobiliar.ch/karriere](https://mobiliar.ch/karriere)

**die Mobiliar**

Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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## Company Description

We operate through four business divisions: Global Wealth Management, Personal & Corporate Banking, Asset Management and the Investment Bank. Our global reach and the breadth of our expertise are major assets that set us apart from our competitors. We see these partnerships as key to our growth, both within and between business divisions. All of our business divisions work closely with our Group Functions teams, making sure that we continue our presence as a global market leader.

## Philosophy

How do we achieve our vision and execute our strategy? By living our three keys to success. Our Pillars, Principles and Behaviors epitomize the best of our heritage. They determine how we work with our stakeholders and each other, how we recruit, and how we make decisions. We'll only be as good as our desire and agility to respond to change. From gaining new experiences in different roles to acquiring fresh knowledge and skills – we never stop growing and learning because life never stops teaching. We evolve with market changes and client needs, do more than we thought possible, and open new doors to the future – for ourselves, our clients, and our firm.

## Contact for application

[ubs.com/careers](https://ubs.com/careers)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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# Figuring out your future?

Let's shape it together

We don't just look at what you're studying. (Really, we don't.) But your attitude does matter. You're ready to start a professional career with a leading global business. Ready to be challenged and to work with others.

It doesn't matter if you like things fast-moving or measured. If you like reading people or plotting charts. Deliberating or making decisions. Or some or all these things. It doesn't matter if you don't know yet.

We can help you find out.  
[ubs.com/careers](https://ubs.com/careers)

### Company Description

Mit mehr als 1.300 Mitarbeitern sind wir eines der grössten, unabhängigen Schweizer Unternehmen im Bereich Softwareentwicklung, Systemintegration und Business Consulting. Seit 1968 verfolgen wir vor allem eine Aufgabe: wir wollen die IT-Welt ein bisschen einfacher machen. Durch komfortable Lösungen für komplexe Aufgaben. Durch Zuverlässigkeit und Engagement. Durch Präzision und Kundenorientierung. Wir zeichnen uns aus durch unseren Mix aus Seniorität und Talent in den Projekt-Teams., welcher die Förderung und Weiterentwicklung von jungen Absolventen ermöglicht und vereinfacht. Die Karrieremöglichkeiten sind vielfältig und

richten sich nach Deinen Bedürfnissen und Skills. Bei der ELCA setzen wir auf gesunde Werte und in unseren Projekten lassen wir uns von unserem Leitsatz inspirieren: We make it work! Werte und in unseren Projekten lassen wir uns von unserem Leitsatz inspirieren: We make it work!

### Philosophy

We make it work!

### Contact for application

[www.elca.ch/de/berufsmoeglichkeiten](http://www.elca.ch/de/berufsmoeglichkeiten)

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



# Wir suchen clevere Köpfe. Immer.

<https://www.elca.ch/de/berufsmoeglichkeiten>

Direct Employment   Internship ~6 Month   Internship ~12 Month   Trainee program   Master Thesis

## Company Description

Meet McKinsey Switzerland! McKinsey blends analytics, design, and engineering thinking with our powerful, 90-year global network. As a global management consulting firm, we help our clients make significant and lasting improvements to their performance and realize their most important goals. We meet our clients anywhere they are in their journey to become more data-driven, providing everything from specific expertise on discrete issues to holistic transformations and implementations.

Our two offices in Switzerland are located in Zurich and Geneva.

## Contact for application

Apply via [www.mckinsey.com/careers](http://www.mckinsey.com/careers)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



## Philosophy

When working as a consultant at McKinsey, you'll collaborate with teams to apply technical knowledge, analytics and engineering thinking in our client work. As a problem-solving and teaming culture, everyone is a full-fledged McKinsey member, and every voice is heard from day one. You are provided with introductory and advanced trainings as well as formal and informal mentors to help you learn and grow. Only here, can you build a product from scratch one day, and manage a large-scale tech team abroad the next.

Student opportunities

# Digital-tech careers

**Best team. Best work. At your best.**

McKinsey blends analytics, design, and engineering thinking with our powerful global network.

[www.mckinsey.ch](http://www.mckinsey.ch)



Direct Employment   Internship ~6 Month   Internship ~12 Month   Traineeprogram   Master Thesis





# QUANTUMBLACK

A MCKINSEY COMPANY

## Company Description

We bring together the brightest data scientists, engineers and designers to tackle problems facing the world's most influential organisations. QuantumBlack teams work in multi-disciplinary environments harnessing data to provide real-world impact. Our projects range from helping pharmaceutical companies bring lifesaving drugs to market quicker to optimising a Formula1 car's performance. At QuantumBlack you have the best of both worlds; all the benefits of being part of one of the top management consultancies globally plus the autonomy to thrive in a fast growth tech culture. We're different and we're proud of it.

## Contact for application

<https://www.mckinsey.com/careers>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD

## Philosophy

Impact: Performance is at the centre of everything we do. Inspired by sport, we know that the smallest edge can make the biggest difference. Our multidisciplinary team will help clients achieve that edge. Data is the lifeblood of any modern organisation, and trust is the currency of our engagements with clients. We strive to maintain the highest levels of data handling, governance and information security with our clients. Nothing is more important to us. The real power of analytics is embedding them into the operating model of an organisation. Our advanced analytics capabilities combined with McKinsey's deep domain expertise and change management experience equip us with a powerful lens to evaluate and improve every facet of an organisation.



# QuantumBlack, a McKinsey company

We use data, analytics and design to help our clients be the best they can be.

## About

QuantumBlack is the Machine Learning and AI centre of innovation and excellence of McKinsey & Company. We operate at the intersection of strategy, technology and design to improve performance outcomes for companies and we bring together the brightest data scientists, engineers and designers to take on the biggest problems facing organisations. QuantumBlack was born and proven in Formula 1 – where teams live and breathe data. Today, we are still fascinated by how a marginal gain can have a significant impact on the performance of any organisation.

## Opportunities

Our recent expansion in Switzerland means new opportunities for team members. Feel free to come speak with us you are interested in finding out more about the roles available:

- // Data Engineer
- // Data Scientist
- // Data Science Intern

## More information

For more information on current roles, scan the QR code and check out our website

[www.quantumblack.com](http://www.quantumblack.com)



QUANTUMBLACK  
A MCKINSEY COMPANY



### Company Description

Flow Traders is a principal trading firm founded in 2004. We are a leading global technology-enabled liquidity provider, specialized in Exchange Traded Products (ETPs). Flow Traders is at the intersection of finance, cutting-edge technology and scientific research. We are able to grow our organization further, thereby ensuring that our trading desks in Europe, the Americas and Asia provide liquidity across all major exchanges, globally, 24 hours a day. Financial markets have rapidly shifted from trading in the pit to algorithmic trading, and our business model has made us an entrepreneurial and competitive firm in the FinTech space. We use our principal technology platform to quote bid and ask prices in thousands of ETP listings. We are also active in other

asset classes such as bonds, FX, cryptocurrencies and similar financial products. On top of that, we provide liquidity to institutional counterparties off-exchange across all regions! Flow Traders stays ahead of the competition by focusing on technology and niche competencies in markets where every second counts. This requires access to the best information and the ability to respond instantly. To achieve this, our team of software developers works in partnership with experienced traders to identify and execute tomorrow's strategies, making Flow a daily pioneer in professional trading. We look forward to working with you!

### Philosophy

Team effort.



### Contact for application

[www.ey.com/ch/careers](http://www.ey.com/ch/careers)

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD

Direct Employment

Internship  
~6 Month

Internship  
~12 Month

Trainee program

Master Thesis

## DO YOU THRIVE ON OUTSMARTING YOUR COMPETITION?

### GRADUATE TRADER & TRADING INTERN

We are looking for talented individuals with excellent mathematical and analytical skills combined with an interest in global financial markets. Our Traders manage and optimize our daily positions, formulate innovative trading strategies whilst also developing tools.

As a Summer Intern you will learn about our trading strategies, trading system and experience life as a Trader at Flow.

### GRADUATE SOFTWARE DEVELOPER PROGRAM

We prepared the Graduate Software Development program for ambitious graduates who like to be challenged every day. During the program, you will work in sprints and participate in stand-up meetings; at the same time, you will work together with your fellow graduate software engineers, and experience working with different Flow Traders development teams.

### EVENTS

We are also hosting several online events for you to get more familiar with Flow Traders! You can check them out at our events page on our website.

### Reach out to us at:

[careers.europe@flowtraders.com](mailto:careers.europe@flowtraders.com)  
[flowtraders.com/careers](http://flowtraders.com/careers)

Flow Traders is an international leading principal trading firm.

## Company Description

In keinem anderen Land Europas wird häufiger Bahn gefahren als in der Schweiz. Mehr als eine Million Menschen nutzen jeden Tag die SBB. Rund 33 000 Mitarbeitende sorgen rund um die Uhr für einen sicheren sowie pünktlichen Bahnbetrieb und stellen dabei die Kundinnen und Kunden in den Mittelpunkt ihrer Anstrengungen. Damit ist die SBB nicht nur die grösste Reise- und Transportfirma der Schweiz, sondern auch eine der grössten Schweizer Arbeitgeberinnen. Der umfassende Dienstleistungsauftrag der SBB ermöglicht es uns, eine vielseitige Auswahl an spannenden Berufen in allen Unternehmensberei-

chen anzubieten. Dank dieser Vielfalt sind die unterschiedlichsten Laufbahnen möglich, die wir durch Aus- und Weiterbildungsmöglichkeiten sowie gezielte Weiterentwicklung und Förderung unterstützen. Engagierte und aktive Mitarbeitende sind für unseren Erfolg entscheidend, deshalb gestalten wir moderne Anstellungsbedingungen und fördern zeitgemässe Arbeitsformen.

## Philosophy

«Du hast viel in dich investiert. Mach was Grosses. Beweg die Schweiz mit uns.»

## Contact for application

[www.sbb.ch/jobsuche](http://www.sbb.ch/jobsuche)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Traineeprogram	Master Thesis
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1992 in der Ukraine geboren.

↓

2009-13  
Studium in Kiev. Bachelor of Science  
in Telekommunikation.

↓

2012-15 System-Analyst  
Telekommunikation.

↓

2013 Als Expatriat nach Bern ge-  
kommen. In der Freizeit viel  
ins Deutschlernen investiert.

↓

2015-17 Master of Science in  
Wirtschaftsinformatik. Fil gemacht.  
Bündeltech perfektioniert. Momov.

Privat mit kleinen Zügen engagiert:  
Im Berner Modell-Eisenbahn-Club.

Seit 2017  
IT-Business-Analyst.  
Für grosse Züge  
zuständig: bei  
Rail Control System  
der SBB.

IT  
Ich  
Anwender  
Business

**Du hast viel in  
dich investiert.  
Mach was Grosses.**

Beweg die Schweiz mit uns in einem  
von über 150 Berufen.

[sbb.ch/jobs](http://sbb.ch/jobs)  
#bewegdieschweiz





### Company Description

We are a leading quantitative research and technology firm. We hire the brightest minds in the world to tackle some of the biggest questions in finance. We pair this expertise with machine learning, big data, and some of the most advanced technology available to predict movements in financial markets.

### Philosophy

We offer a dynamic, flexible and highly stimulating culture where world-beating ideas are cultivated and rewarded. We are proud to employ some of the best people in their field and are keen to nurture their talent in a supportive working environment.

# CREATE TODAY. PREDICT TOMORROW.

### Contact for application

[www.gresearch.co.uk/join-us/](http://www.gresearch.co.uk/join-us/)

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



### IMAGINE DISCOVERING SOMETHING UNDISCOVERED.

G-Research is Europe's leading quantitative finance research firm. We hire the brightest minds in the world to tackle some of the biggest questions in finance. We pair this expertise with machine learning, big data, and some of the most advanced technology available to predict movements in financial markets.

We work on a very mature prediction problem. Finding the 1% of difference, working at the very cutting edge of developments, is the place where success happens. We are, in effect, incentivised to explore the state-of-the-art.

We have exceptional internships and permanent roles for PhD, Post Doc and Masters candidates interested in quantitative research.

### KEEP IN TOUCH



[linkedin.com/company/g-research](https://www.linkedin.com/company/g-research)



[twitter.com/gresearchjobs](https://twitter.com/gresearchjobs)



[facebook.com/gresearchcareers](https://facebook.com/gresearchcareers)

### APPLY TODAY

Visit our website to see all of our live vacancies and to submit an application:

[www.gresearch.co.uk](http://www.gresearch.co.uk)



Data

Finance

IT

Research

## Company Description

Hamilton Medical is a dynamic, internationally successful medical device company headquartered in Bonaduz, Switzerland. At Hamilton Medical, we live for ventilation technology. Technology that helps caregivers improve the lives of their critically ill patients. We believe that innovation is essential to meet the demands of critical care.

To strengthen our multinational team, we are looking for motivated people in all areas of the company: from software developers to medical or healthcare

## Contact for application

Please see <https://jobs.hamilton.ch/en/jobs>

professionals, from engineers to export specialists, from production workers to regulatory affairs specialists, and from project leaders to product managers.

## Philosophy

«We drive innovation to improve people's lives.»

Please see: <https://jobs.hamilton.ch/en/ueber-hamilton/vision-and-values>



## Revolutionizing Critical Care Ventilation

Hamilton Medical is a dynamic, internationally successful medical device company headquartered in Bonaduz, Switzerland.

At Hamilton Medical, we live for ventilation technology. Technology that helps caregivers improve the lives of their critically ill patients. We believe that innovation is essential to meet the demands of critical care.

To strengthen our multinational team, we are looking for motivated people in all areas of the company: from software developers to medical or healthcare professionals, from engineers to export specialists, from production workers to regulatory affairs specialists, and from project leaders to product managers.

We are looking forward to your contribution. You can find open positions on [jobs.hamilton.ch](https://jobs.hamilton.ch)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment

Internship  
~6 Month

Internship  
~12 Month

Trainee program

Master Thesis

## Company Description

Die Allianz wurde vor über 125 Jahren in München gegründet und ist heute eine der weltweit stärksten Finanzgesellschaften. Versicherung und Vorsorgeschutz sind unser Kerngeschäft. Seit 2002 ist die Allianz auch in der Schweiz vertreten - mit Hauptsitz in Wallisellen und an 130 weiteren Standorten. Wir sind auf der Suche nach Mitarbeitenden, die den Mut haben, den Status quo zu challengen, die Veränderungen bewirken und sich dafür einsetzen wollen, unsere Spitzenposition in der Versicherungswelt zu stärken. Als Arbeitgeber inschaffen wir die Voraussetzungen,

dass das möglich ist. Unsere 3600 Kolleginnen und Kollegen erhalten nicht nur die Möglichkeit, bei uns ihren ganz eigenen Karriereweg zu gehen. Sie profitieren auch von einer Vielzahl an Sonder- und Zusatzleistungen wie flexiblen Arbeitszeiten, Sportangeboten, Erfolgsbeteiligungen und Mitarbeiterprogrammen.

## Philosophy

Mut heisst machen

## Contact for application

[careers.allianz.com](https://careers.allianz.com)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



# FÜR ALLE, DIE SICH TRAVEN...

...ihre Zukunft in die eigene Hand zu nehmen. Die Allianz Suisse eröffnet dir tolle Zukunftsperspektiven.

**Hier ist dein Zuhause.**

Direct Employment

Internship ~6 Month

Internship  
~12 Month

Trainee program

Master Thesis

Traust du dich? Dann pack deine Chance!  
[careers.allianz.com/schweiz/absolventen](https://careers.allianz.com/schweiz/absolventen)



## Company Description

Xovis – Rethinking People Flow

Wir sind internationale Marktführerin für intelligente Lösungen im Bereich Besucherströme und meistern Herausforderungen in den Bereichen Flughäfen, Einzelhandel, Öffentlicher Verkehr und Gebäudetechnik. Unsere Denkweise und Erfahrung machen Xovis zu einer lernenden Organisation und genau diese Eigenschaft lässt uns die Dinge anders machen - auf die Xovis-Art.

## Philosophy

Our work is reliable, scientifically sound and conducted using the latest technology.

ZUSAMMEN MIT DEM UNTERNEHMEN WACHSEN IST DAS BESTE WAS EINEM AMBITIONIERTEN MITARBEITENDEN PASSIEREN KANN. BEI XOVIS ERHALTE ICH DIESE AUSSERGEWÖHNLICHE MÖGLICHKEIT.

- TEAM LEAD IN DER ENTWICKLUNG -

Vom dreiköpfigen Start-up zum globalen Trendsetter in weniger als 10 Jahren!

Wir sind eine Schweizer Firma mit eigener Hard- und Softwarelösung für die präzise, Datenschutzkonforme Zählung von Personen und der Optimierung von Personenflüssen.

Die Einsatzmöglichkeiten unserer einzigartigen 3D Technologie sind vielfältig. Sie ist beispielsweise an Flughäfen, Bahnhöfen, Shopping Malls, Boutiquen, Sportanlagen oder auf Kreuzfahrtschiffen im Einsatz.

Xovis bietet Platz für ehrgeizige und kreative Mitarbeitende. Unser Team bildet das Fundament unseres grossen Erfolges.

## Xovis wächst weiter!

Für unseren Standort in Zollikofen (bei Bern), suchen wir Unterstützung!



## Contact for application

<https://www.xovis.com/en/about/working-at-xovis/>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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### Company Description

ESA is an international organisation with 22 Member States. By coordinating the financial and intellectual resources of its members, it can undertake programmes and activities far beyond the scope of any single European country.

### Contact for application

[www.esa.int/careers](http://www.esa.int/careers)

### Philosophy

The European Space Agency (ESA) is Europe's gateway to space. Its mission is to shape the development of Europe's space capability and ensure that investment in space continues to deliver benefits to the citizens of Europe and the world.

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment Internship ~6 Month

Internship  
~12 Month

Trainee program

Master Thesis

### careers at esa

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**OUR UNIVERSE**



Rendez-vous with inspiring jobs at  
[www.esa.int/About\\_Us/Careers\\_at\\_ESA](http://www.esa.int/About_Us/Careers_at_ESA)



## Company Description

METTLER TOLEDO is a leading global supplier of precision instruments and services. We are recognized as an innovation leader and our solutions are critical in key R&D, quality control, and manufacturing processes for customers in a wide range of industries including life sciences, food, and chemicals. We operate throughout the world with a culture shaped by innovation and international flair.

## Philosophy

METTLER TOLEDO remains successful by constantly striving to provide greater value to our customers through our innovative solutions. While we serve our customers locally, we aim to be their

global partner. This requires us to tap into the strength of the entire METTLER TOLEDO network, a team of thousands of employees across the world. This is our vision: OneTeam – Employees are the lifeblood of METTLER TOLEDO – dedicated, motivated and empowered. We work together with fellow employees worldwide toward common goals. We succeed through teamwork elevating our performance to higher levels.

Global Reach – The business world is more global than ever. METTLER TOLEDO has a unique corporate advantage through our global presence yet we remain organized into focused, empowered local units. This keeps us flexible and customer-oriented, ready to embrace the local environment and respect all cultures.

## Contact for application

[https://www.mt.com/ch/de/home/site\\_content/hr/careers.html](https://www.mt.com/ch/de/home/site_content/hr/careers.html)

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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“What we do at METTLER TOLEDO is very exciting, because it influences our own lives. Thanks to our products and the software that we develop, we give our customers the possibility to create new products that exceed their quality standards.”

**Thomas**  
Software Development Center

METTLER TOLEDO is the leading manufacturer and provider of precision instruments. Our weighing systems and analytical instruments can be found in laboratories, industrial plants, and food retailing applications across the globe.

Start your journey  
► [www.mt.com/career](https://www.mt.com/career)

**METTLER TOLEDO**

## Der Oepfelbaum

Als Banking Technology Experts unterstützen wir unsere Kunden in der Finanzindustrie fachlich und technisch in allen Bereichen der digitalen Transformation: Bei der Erweiterung und Erneuerung von Handels- und Core-Banking Systemen, der Implementierung digitaler Vertriebskanäle, der Integration von internen und externen Lösungen in die bestehende Systemwelt, der Umstellung auf DevOps und dem Data-Engineering. Wir sind ein Premium-Anbieter von Banking Technology Experts. Unser Team umfasst deshalb ein breites Spektrum an ausgewiesenen, handverlesenen Spezialisten mit unterschiedlichsten Kombinationen von technischem und fachlichem Know-how und der Fähigkeit, die Anforderungen unserer Kunden zu verstehen und direkt vor Ort zielgerichtet umzusetzen.

## Contact for application

Daniela Jegge, [jobs@oepfelbaum.com](mailto:jobs@oepfelbaum.com)

<https://oepfelbaum.com/careers/bewerberinformationen/>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



## Du als Teil des Oepfelbaums

Im Oepfelbaum findest du ein Team von aussergewöhnlichen Mitarbeitern und eine Organisation mit flachen Hierarchien und ausgezeichneten Anstellungsbedingungen. Wertschätzung wird bei uns grossgeschrieben, du geniesst ein Mitspracherecht was dein Mandat angeht und wir unterstreichen die Einzigartigkeit unserer Mitarbeiter mit individuellen und flexiblen Lösungen. Trotz manchmal fordernder Projektarbeit entsprechen Überstunden bei uns nicht der Regel und werden kompensiert - denn eine gesunde Work-Life-Balance ist essenziell; aus unserer Erfahrung fördern Ausgleich und Erholung qualitativ hochstehende Resultate. Du lernst unterschiedliche Firmen und Projekte im Finanzumfeld kennen; dies sorgt für Abwechslung, spannende Aufgaben und ein rasches Füllen deines persönlichen Rucksacks.

# Vontobel

## Company Description

As a globally operating investment player with Swiss roots, we specialize in wealth management, active asset management and investment solutions. We empower our colleagues to take ownership of their work and bring opportunities to life. Because we are convinced that successful investing starts with assuming personal responsibility. We at Vontobel strive for sustainable and innovative solutions and becoming the tech investment house on the market in combination with over 90 years of investment experience. We drive innovations like Deritrade, an investment platform, which is being leveraged by 100 banks,

550 external asset managers and 5,500 users, investing more than 6 billion CHF with over 36,000 issued products in 2018 alone.

## Philosophy

Vontobel is big enough to matter in the market, but still focused enough to care for each of our 2000 employees. At Vontobel, we cultivate an ownership mindset: we give our people room to maneuver and empower them in every position to take personal responsibility. Possessing this mindset means taking ownership of your business and achieving your full potential as a specialist and as a human being.

## Contact for application

<https://www.vontobel.com/en-ch/graduate-trainee-program/>

<https://www.vontobel.com/en-ch/about-vontobel/careers/>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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Vontobel

# Don't follow the crowd

## Vontobel Graduate Trainee Program



Apply by  
April 30, 2021  
[vontobel.com/gtp](https://vontobel.com/gtp)

Join us. We are a globally operating financial expert with Swiss roots.



### Company Description

Sensirion, headquartered in Staefa, Switzerland, is a leading manufacturer of digital microsensors and systems. Founded in 1998 as a spin-off from the Swiss Federal Institute of Technology (ETH) Zurich, the company is based in Staefa near Zurich, Switzerland, and employs 780 people.

### Philosophy

Sensirion stands for state-of-the-art technology, innovation and outstanding performance. The Swiss company is

the global leader in the manufacture of high-quality sensors and software solutions for the measurement and control of environmental parameters and flows. Millions of our sensors are used all over the world, including in the automotive, medical technology and consumer goods industries, helping advance the continuous improvement of health, comfort and energy efficiency. Sensirion makes an active contribution to a smart and modern world with its sensor technology.

### Contact for application

[www.sensirion.com/de/karriere/offene-stellen/festanstellungen/](http://www.sensirion.com/de/karriere/offene-stellen/festanstellungen/)

Désirée Widmer

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



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„We’ve pleasantly surprised our international customers time and again with our solutions.“

Sofia Deloudi,  
Product Manager Software & Cloud



„Become Part of the Sensirion Success Story.“ Want to give your career a decisive boost and tackle new challenges? Then technical sales at Sensirion is the right area for you.

Internationality, top performance, trends and new technologies – technical sales at Sensirion is versatile and diverse, offering an international, creative and interdisciplinary working environment.

At Sensirion, you will work on the innovations of tomorrow. You will take part in crazy projects, drive new ideas and make a big difference to the world together with your team.

Continue writing your success story with us and take on responsibility in international customer projects.

[www.sensirion.com/technical-sales](http://www.sensirion.com/technical-sales)

## Company Description

Zurich Instruments is a test and measurement company based in Zurich, Switzerland, with subsidiaries in Shanghai and Boston. We develop and sell high-end instrumentation, and we take pride in supporting our international customers directly. Our cutting-edge instruments are made for scientists and technologists who are passionate about phenomena that are notoriously difficult to measure. Our products include lock-in amplifiers, arbitrary waveform generators, impedance analyzers, quantum computing control systems, phase-locked loops, digitizers and boxcar averagers.

## Contact for application

<https://www.zhinst.com/ch/en/company/careers>

For spontaneous applications and internships apply here:

<https://www.zhinst.com/ch/en/jobs/spontaneous-applications>

## Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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## Philosophy

We are a team of creative and inspiring people who love technology and work together with an optimistic and innovation-driven spirit. Our pursuit of excellence has led us to grow at a steady double-digit rate as an independent and founder-led company. To achieve our goals, we always seek ingenious minds who enjoy tackling challenges in a cooperative fashion.



## ABOUT US

Zurich Instruments is a test and measurement company based in Zurich, Switzerland, with subsidiaries around the world. We develop, sell and support measurement instrumentation in key worldwide markets, either directly or with carefully selected partners. We are a steadily growing, independent and founder-led company.

take more responsibility. Knowledge sharing and continuous learning across different functions is essential. We foster a culture of open and constructive feedback. Driven by our company values, everybody is encouraged to take leadership in order to achieve the best for our customers and for our company beyond functional and organizational boundaries.

## WHY WORK FOR US

You will work in a team of bright, creative, and inspiring people. We all love technology, and work together with a positive and innovation-driven spirit. You will encounter a work environment with a lot of freedom to act, and space for creativity. We also believe that consistently good work performance requires a healthy work-life balance. This starts with a good working climate where we tackle daily challenges with persistence and a sense of humor.

## TRAINING AND DEVELOPMENT

Our team members grow in their roles, and are coached to successfully

**WHAT WE ARE LOOKING FOR**  
At Zurich Instruments we actively seek results-oriented self-starters who love to tackle challenges in a cooperative fashion. For our application scientist positions, they're people who want to transition from an academic path into a more commercial role, and for engineering positions they want to be part of a high-quality R&D team striving for the best-on-market measurement software and hardware solutions. You'll need to perceive daily variation as a positive stimulus for your own development and feel inspired working in a multicultural, high-tech environment.

## LOCATIONS

- Zurich, Switzerland
- Shanghai, China
- Cambridge, MA, USA

## NUMBER OF EMPLOYEES

100

## POSITIONS RECENTLY RECRUITED FOR

Application scientist; technical sales; product manager; hardware design and test engineer; software engineer

## DESIRED DEGREE & DISCIPLINES

BSc, MSc or Ph.D., or equivalent, in physics, electrical engineering, or other technical fields, depending on the role

## US CITIZENSHIP REQUIRED

Preferable for US-based roles

## HOW TO APPLY

Apply online at [www.zhinst.com/company/career](https://www.zhinst.com/company/career)

## CLOSING DATE

All year round

## CONTACT

Zurich Instruments  
Technoparkstrasse 1  
Zurich 8005  
Switzerland  
Tel +41 044 515 04 10  
E-mail [info@zhinst.com](mailto:info@zhinst.com)  
[www.zhinst.com](https://www.zhinst.com)

## TECHNICAL FIELDS

- Atomic & molecular science
- Computational science & software engineering
- Engineering & instrumentation
- Metrology & measurement science
- Nanotechnology
- Optics, lasers & photonics
- Quantum science & technology



### Company Description

For almost 140 years, MeteoSwiss, the Swiss national weather and climate service, has been playing an important role in our country's safety and prosperity. The general public, industry and science all profit from the range of services provided by our dedicated team of 360 or so employees in Zurich, Geneva, Payerne and Locarno. On behalf of the Federal Government, MeteoSwiss performs the duties set out in the Federal Act on Meteorology and Climatology. We operate the national surface and radar measurement network and collect, manage and analyse weather and climate data. We produce forecasts, inform, warn and advise, and are engaged in researching and developing tailor-made products and services.

### Contact for application

<https://www.stelle.admin.ch/stelle/de/home.html>

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



MeteoSwiss is an institution that sets benchmarks and creates efficient and innovative solutions. We consider ourselves to be a modern, need-driven service provider which adapts to the requirements of industry and society. To this end we work hand in hand with our customers and research partners in Switzerland and abroad, and are constantly evolving and developing as a result.

### Philosophy

MeteoSwiss is Switzerland's national meteorological service. We record and forecast the weather and climate, thus generating benefits for society, business and the environment in the short and long term. Our work is reliable, scientifically sound and conducted using the latest technology.



### Factsheet

# MeteoSchweiz: der nationale Wetterdienst

Wir messen, rechnen, analysieren, prognostizieren und beraten. Wir schauen voraus, aber immer auch zurück und über die Landesgrenzen hinaus. Rund um die Uhr.

Direct Employment   Internship ~6 Month   Internship ~12 Month   Traineeprogram   Master Thesis





### Company Description

QNAMI is a start-up based in Basel, Switzerland. Our company applies fundamentally new physics to sensing applications. Specifically, we are specialized in the development of diamond-based quantum sensors and all the instrumentation/software that is required for their operation. By precisely controlling and measuring the state of a single electron trapped in the diamond lattice, we are able to measure electric and magnetic fields with unique sensitivity and spatial resolution. We are proud to have our first product, the ProteusQ - a turn-key solution to perform magnetic field imaging at the nanoscale.

### Contact for application

[jobs@qnami.ch](mailto:jobs@qnami.ch)

### Degrees

Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment Internship ~6 Month

Internship  
~12 Month

Trainee program

Master Thesis

### Philosophy

Qnami is a high-tech company with the focus of commercializing disruptive Quantum Technology-based sensors. Yet, we value technology and core values such as respect, transparency and personal motivation equally. On top of this, our customers are the number one priority and should be always treated as such. Qnami's team is multi-cultural, fast moving and highly motivating, where every single member brings a valuable contribution to our trajectory.



QNAMI applies fundamentally new physics to **sensing applications**. By precisely controlling and measuring the state of a single electron, we are able to measure electric and magnetic fields with **unique sensitivity**. We call this **quantum sensing**.

## We are hiring!

Application and Support Scientist

Technical Marketing Manager

Interested in doing a **Master Project in the industry or an internship?**

Meet us at the Mindphair, or contact us at [jobs@qnami.ch](mailto:jobs@qnami.ch)

Qnami AG

[qnami.ch](http://qnami.ch)



### Company Description

Polariton Technologies is a young start-up coming out of D-ITET developing cutting-edge devices for optical communications. We are about to launch our first product based on a novel electro-optic modulator. It enables our customer to send data with unprecedented speed and quality. Join our team to develop the next generations of our products.

### Your benefits:

- Grow with a dedicated and dynamic team and broaden your horizon in an interdisciplinary environment
- Contribute to innovative technology development and create new products
- Strengthen your technology and communication skills

### Contact for application

Wolfgang Heni: [join@polariton.ch](mailto:join@polariton.ch)

### Degrees

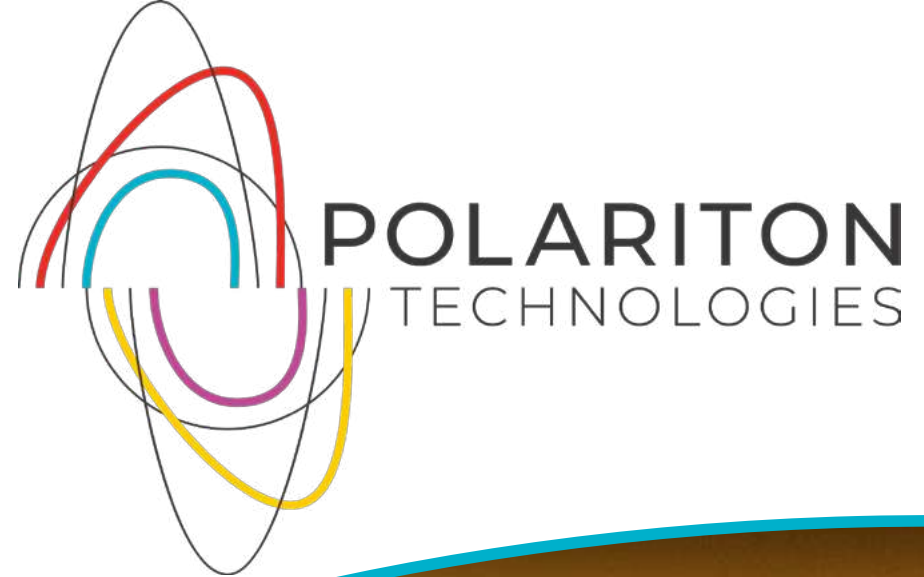
Math.	BSc.	MSc.	PhD
Phys.	BSc.	MSc.	PhD
Com. Sc.	BSc.	MSc.	PhD



Direct Employment	Internship ~6 Month	Internship ~12 Month	Trainee program	Master Thesis
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### Philosophy

- We communicate clearly, openly and honestly. Decisions are transparent and comprehensible and every voice is heard.
- We appreciate the work of others and express sincere gratitude, creating and maintaining a happy work environment.
- We are curious and wish to learn new skills. We are continuously striving to grow as an individual and as a team.



## The Golden Link - Plasmonic Modulators

## Impressum

Herausgeberin:  
Verein der Mathematik-, Physik- und  
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Studierenden an der ETH Zürich  
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Universitätsstrasse 6  
CH-8092 Zürich

Tel: +41 44 545 87 57  
Mail: [contact@mindphair.ch](mailto:contact@mindphair.ch)



## Our Team

In clockwise direction starting from the top left: Julius Gruber, Manuel John (Präsident), Teodora Bujaroska Peter Tirler, , Samuel Russo, Fabian Jin, Andrey Bryutkin, Fanny Almy. Centre: Julia Netzel

## About Us

[MindPhair] is a commission of VMP. VMP is the student association for physics, maths and computational science and engineering students at ETH Zurich.

VMP is representing over 2000 students and is part of the student association VSETH.