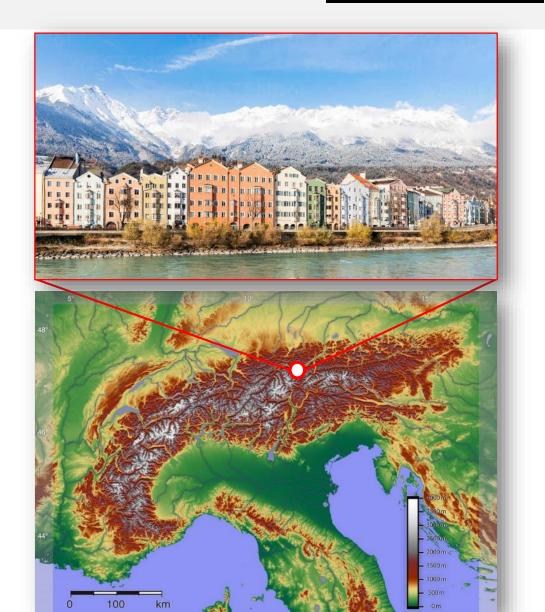




Master Studies: Earth Sciences



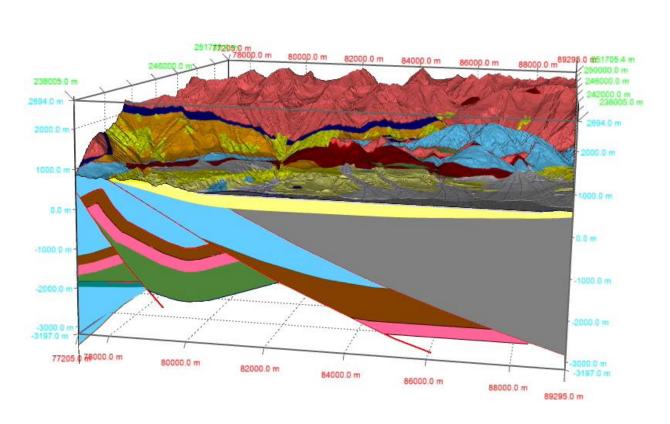
Innsbruck's location in the <u>heart of the Alps</u> offers unique conditions for studying Earth Sciences





Innsbruck's location in the heart of the Alps offers unique conditions for studying Earth Sciences





3D Modell Karwendel. Ortner



Master in Earth Sciences

- <u>Requirements</u>
 Bachelor in Earth Sciences or equivalent
 (equivalence? Contact study coordinator)
- Duration /ECTS-AP4 semester/120 ECTS-AP
- Type: full-time
- Language
 English and German
 (depending on international students
 → coordination with lecturers)



Mandatory:

Master Introduction (Group Project 10 ECTS)

Thesis concept + Thesis + Defensio

40 ECTS



Master Introduction (Group Project 10 ECTS)

Geochemistry

Thesis concept + Thesis + Defensio

40 ECTS

80 ECTS

Your possibilities, your choice:

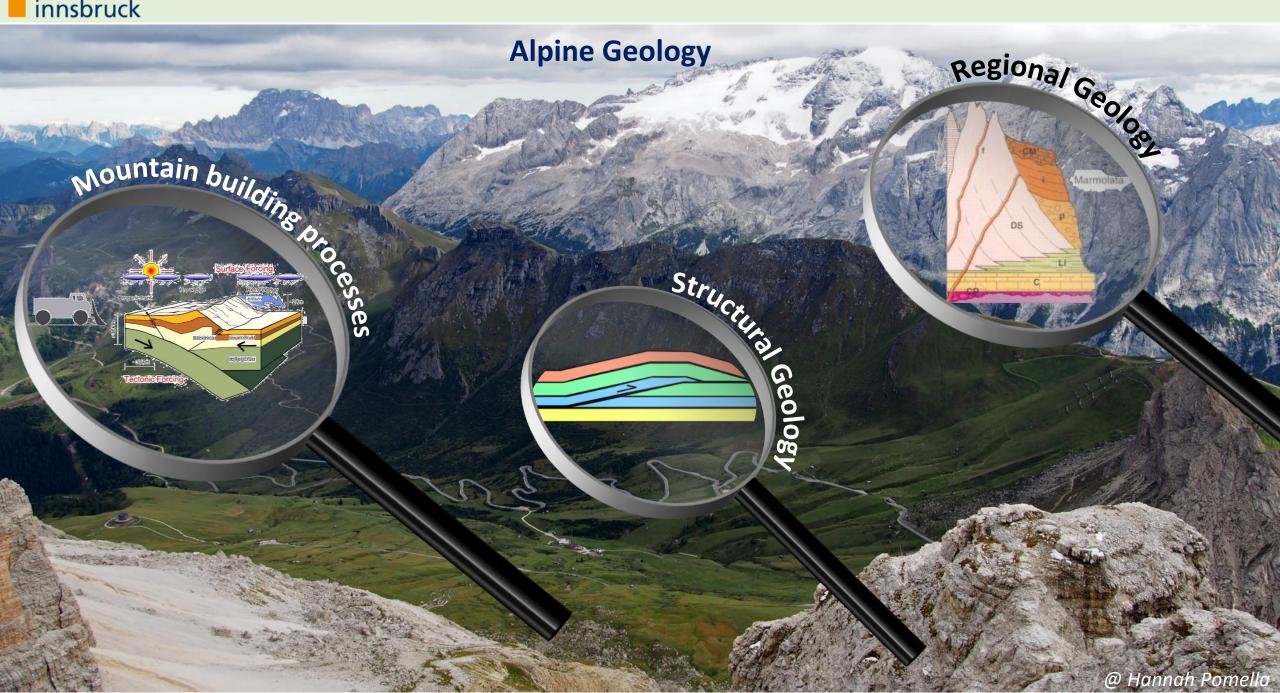
Mineral Resources International Fieldtrip Regional Geology Geodynamics Basins and Orogens Mineral and Crystal structures Geodata Adv. Crystallography Exp. synthesis Hydrogeology Structural Geology Crystalline Geology Mineral Spectroscopy. Marine Geology Material Sciences New Research Developments Stratigraphy Analytical Methods Adv. Mineralogy Phys. + Chem. Mineralogy Quaternary Geology Theoretical Petrology Core Analyses Mineral Resources Adv. Mineralogy 2 Palaeoclimatology Magm. + Met. Petrology High-Pressure Synthesis Palaeobiology Geotechnics Applied Geophysics

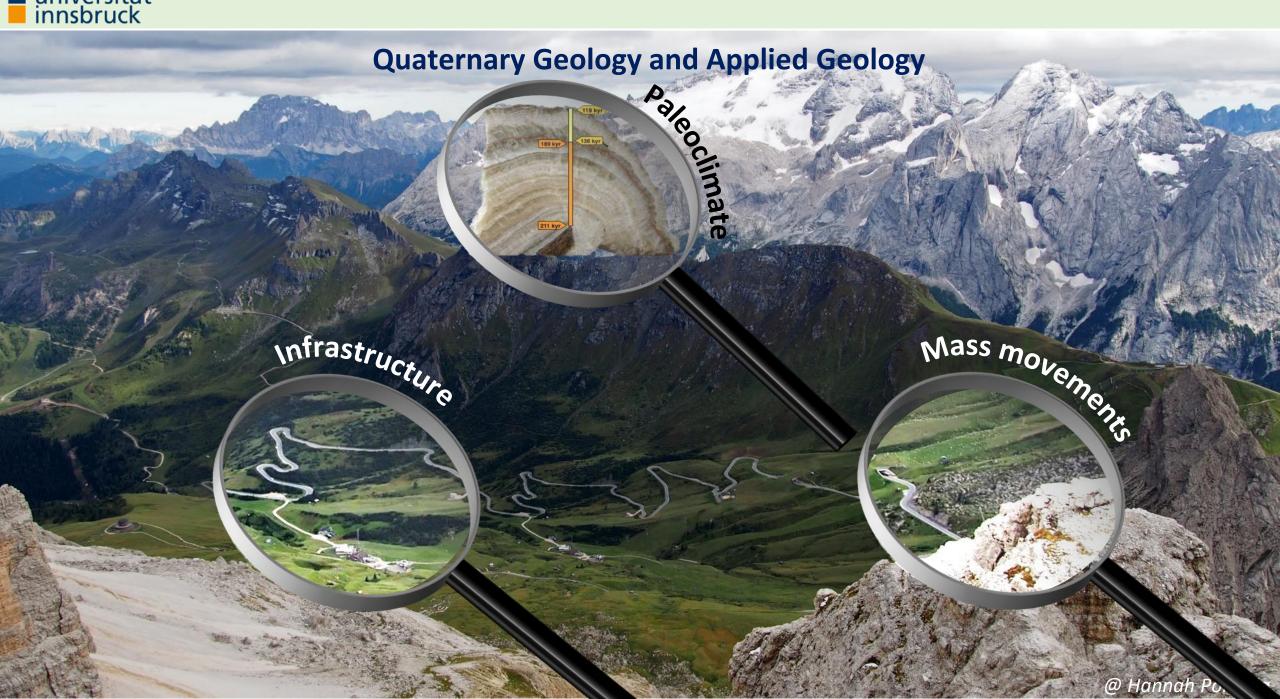
Interdisciplinary Competences

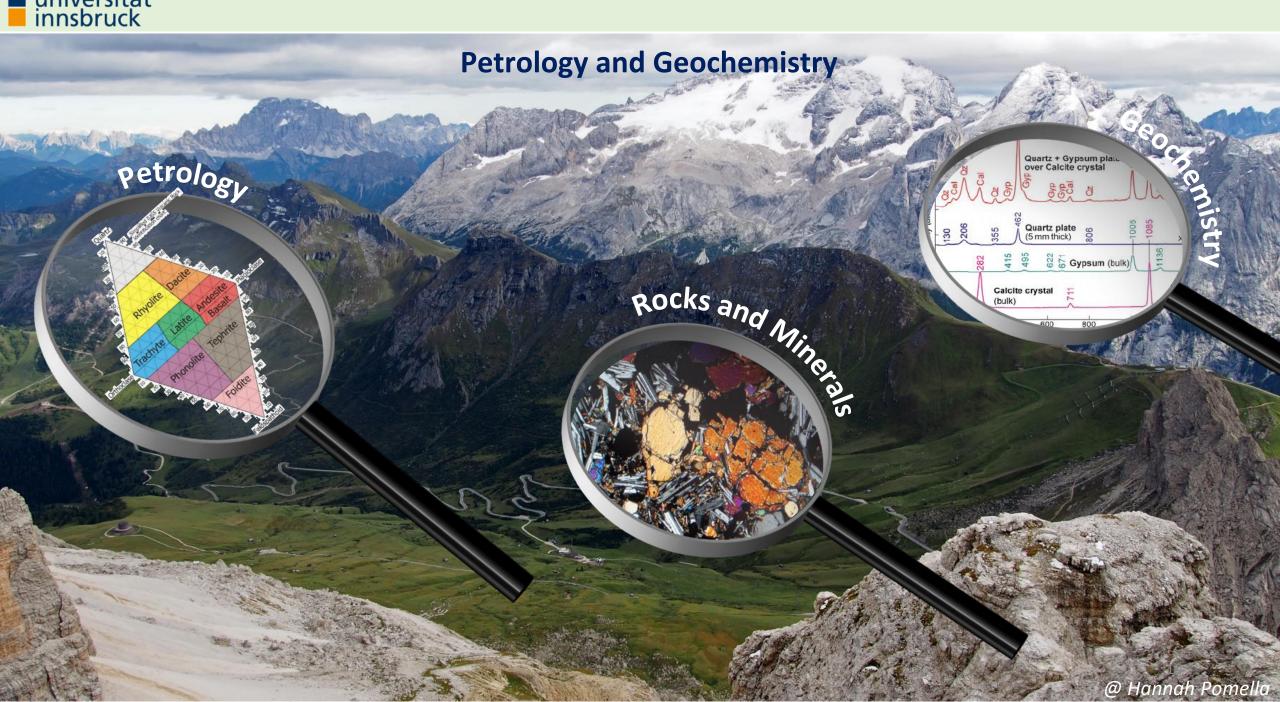
6

Geochronology





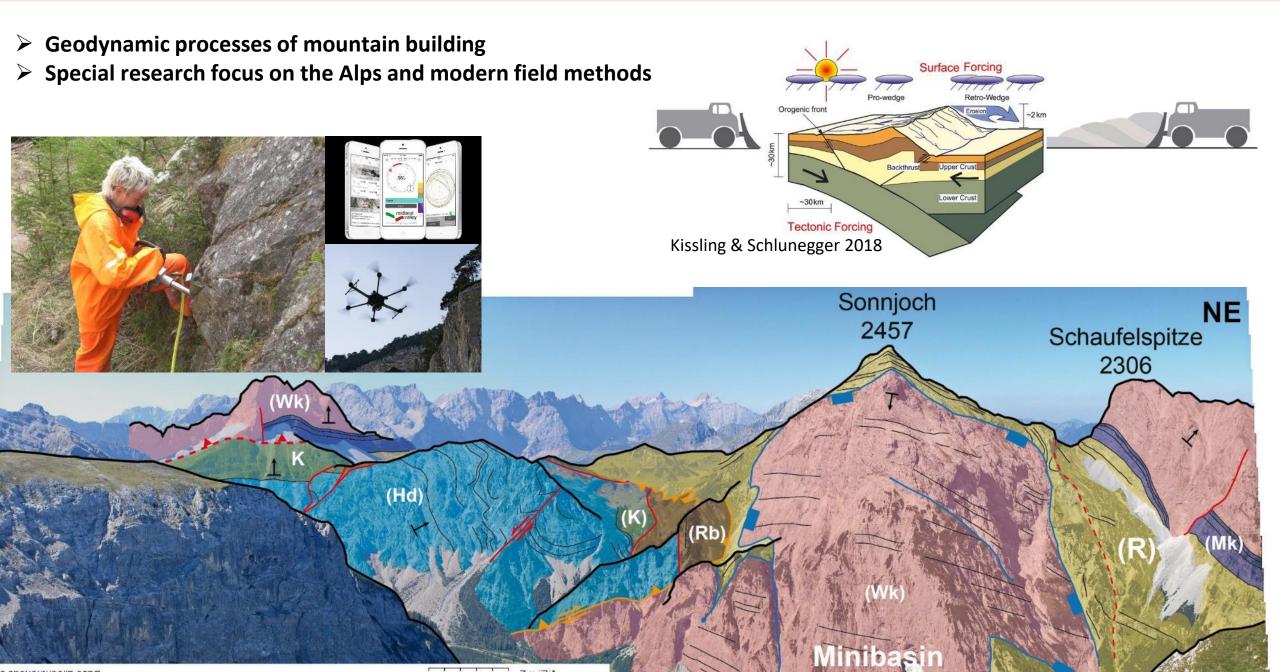






Master Introduction (Group Project 10 ECTS) Thesis concept + Thesis + Defensio Your possibilities, your choice: Resources **Regional Geology** Mineral Resources International Fieldtrip Geodynamics Alpine Mineral and Crystal structures **Basins and Orogens** Geodata and Hydrogeology Exp. synthesis Adv. Crystallography Structural Geology ieology Materials **Crystalline Geology Material Sciences** Marine Geology Mineral Spectroscopy. Stratigraphy New Research Developments **Analytical Methods** Geochemisty Phys. + Chem. Mineralogy **Quaternary Geology** Adv. Mineralogy and Applied Quaternary **Drill Core Analyses** Theoretical Petrology Mineral Resources and Magm. + Met. Petrology Adv. Mineralogy 2 Palaeoclimatology Geology Geology Petrology **High-Pressure Synthesis** Palaeobiology **Applied Geophysics** Geotechnics Geochronology Geochemistry Interdisciplinary Competences







Courses

Regional Geology



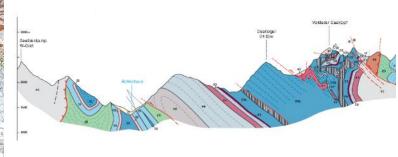




Pomella

Ortner



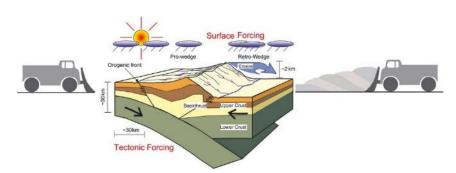


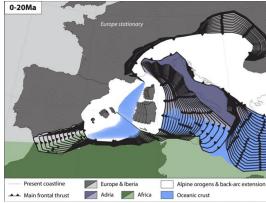
Geodynamics





Ortner Rogowitz

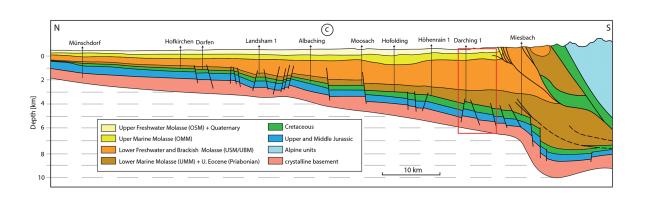




Basins and Orogens



Strasser



Focus: Alpine Geology

Courses

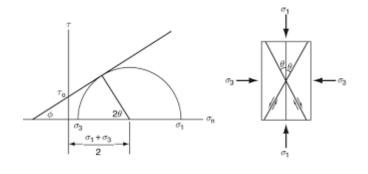
Structural Geology





Rogowitz Ortner







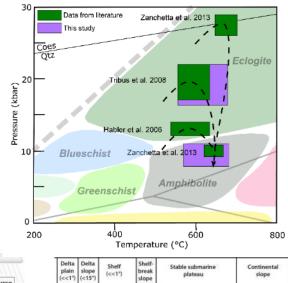




Tropper



Konzett



Stratigraphy

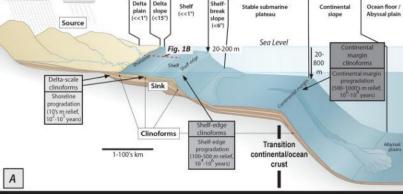






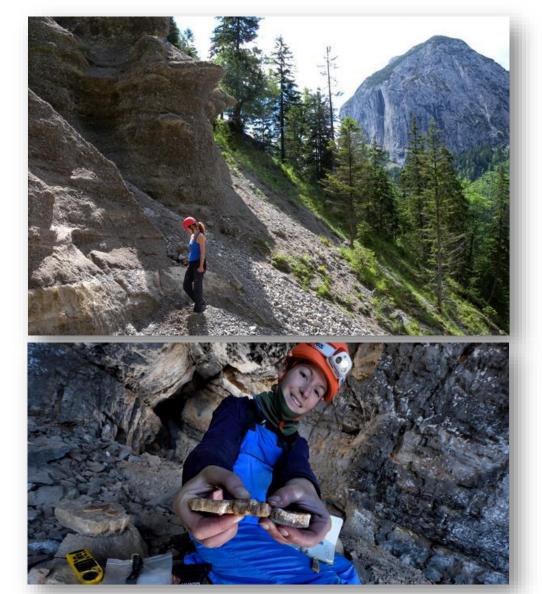
Strasser Sanders

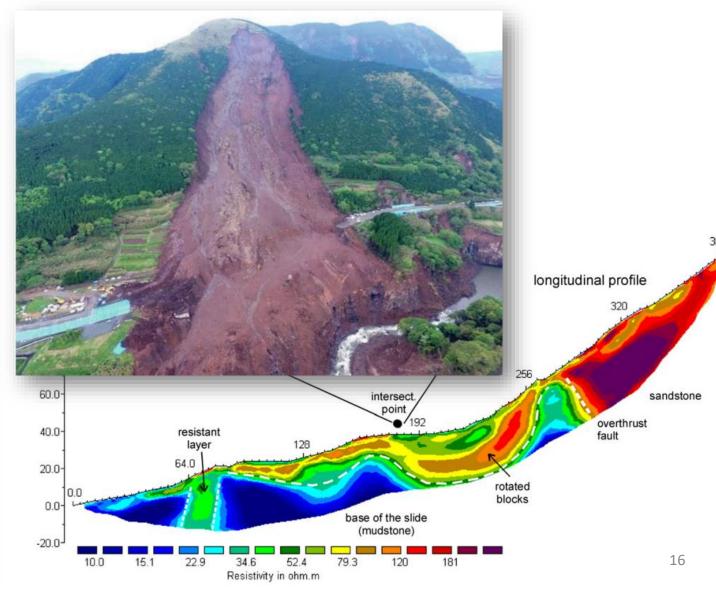






- Earth surface processes: DRIVERS of erosion, sediment transport, deposition
- > Special research focus on Climate Change and Natural Hazards







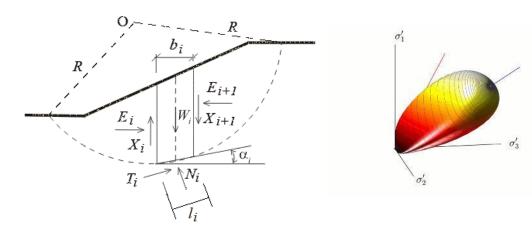
Focus: Quaternary and Applied Geology

Courses

Geotechnics



Fellin



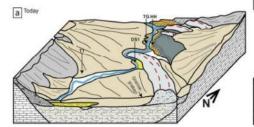
Quarternary Geology

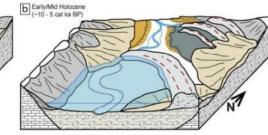


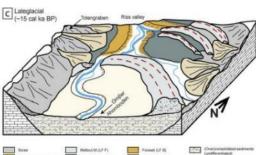
Meyer



Spötl







Core analysis



Strasser Ramisch





Focus: Quaternary and Applied Geology

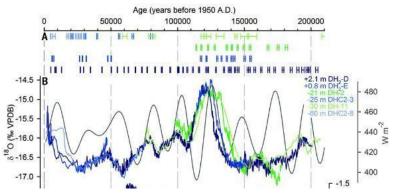
Courses

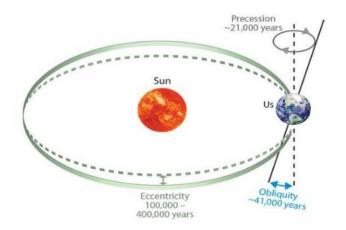
Paleoclimatology



Moseley

Koltai





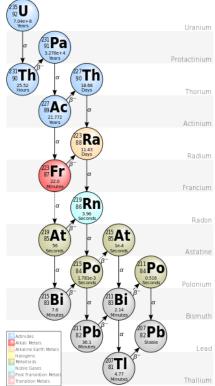
Applied Geophysics



Moernaut



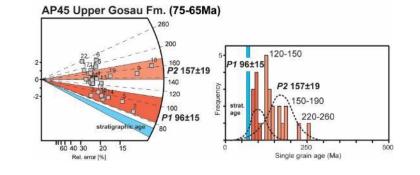




Isotopes + Geochronology



Dublyansky Pomella











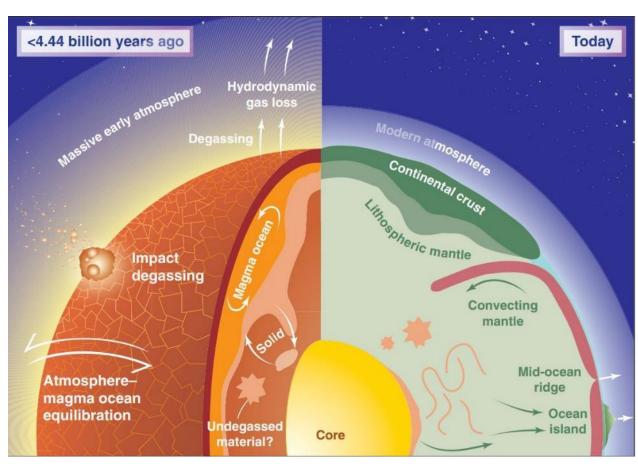
Konzett



Tropper



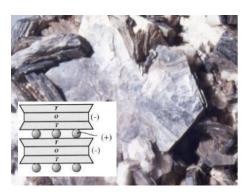
Mrosko



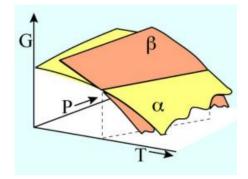




Analytical Methods



Systematic Mineralogy



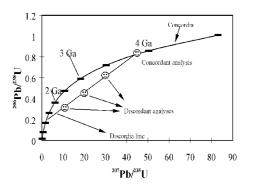
Theoretical Petrology



Experimental Petrology



Igneous and Metamorphic Petrology



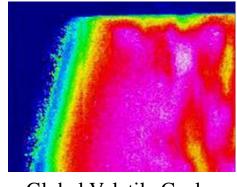
Isotope Geochemistry



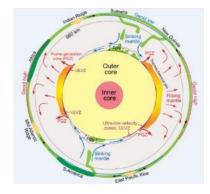
Research areas:



Geochemistry of Pegmatites



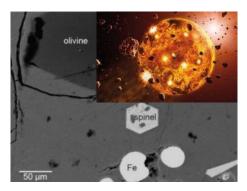
Global Volatile Cycles



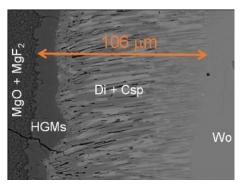
Deep Earth



Meteorites



Early Earth



Kinetics of Metamorphic Reactions







Kahlenberg



Heijny



Krüger



Krüger

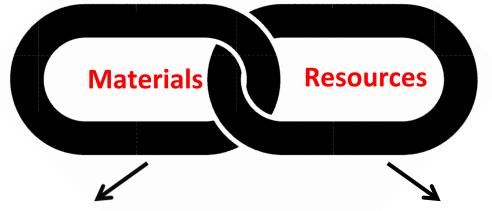


Tropper



Patton







Iron ore sintering (Vanderbijlpark Steel Plant, South Africa)



Banded Iron Formation (Hamersley Province, Australia)



Analytical Methods



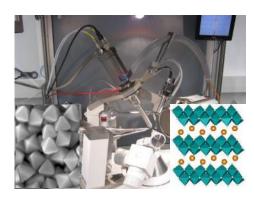
Material Sciences in Mineralogy



Mineralogy of Raw and Processed Materials



Experimental Synthesis Techniques

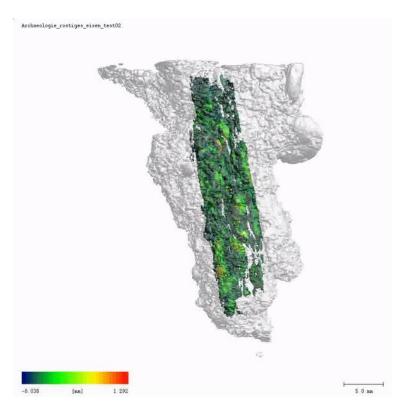


Structures of Crystalline Materials

Research areas:



Goal: Explore new ways for the production of large MgO crystals



Goal: Explore new ways for the conservation of archeological sample material





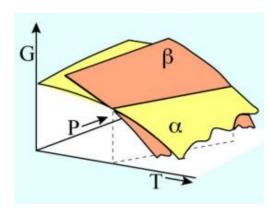


A Master in Earth Sciences gives you an amazing set of skills:

- ✓ Field methods
- ✓ Laboratory methods
- ✓ Computational methods
- ✓ Scientific writing
- **✓** Presentation
- ✓ Project management









A Master in Earth Sciences gives you an amazing set of skills:

- √ Field methods
- ✓ Laboratory methods
- ✓ Computational methods
- ✓ Scientific writing
- **✓** Presentation
- ✓ Project management

Fundamental research

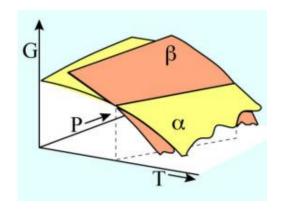


All specializations will train you in both fundamental research and applied studies

For your MSc thesis, you get the chance to participate in internationally-renowned research groups









... Jobs, jobs, jobs! The focus areas open up job opportunities in the applied geoscientific sector, the raw materials industry and energy industry, but also with various public authorities, consulting companies and in academic research (PhD studies).



Landesverwaltung



















Südtiroler





e.g.



































Opportunities for making a practicum in a company

- Practicum + report/talk
 → Accounts for 5 ECTS in the module "Praxis"
- Confirmation from the study coordinator BEFORE the practicum

https://fileshare.uibk.ac.at/f/ad0c4ce18d0747bcaae5/
(procedure)

Opportunities for a study semester (or practicum) abroad

- Financial support (400-500 € per month)
- No tuition fee
- ECTS are accounted for
- Planning and application well in advance!

WHERE?

- Riga (Letvia)
- Bucarest (Rumania)
- Uppsala (Sweden)
- Tromsø (Norway) → possibility to stay in Svalbard (Spitzbergen)
- Amsterdam (Netherlands)
- Reykjavik (Iceland)

https://www.uibk.ac.at/de/international-relations/studierendenmobilitaet/outgoing/mobilitaetsprogramme/erasmus-studmob/

South America & Indonesia: via agreements
 at the Institute of Geography
 https://www.uibk.ac.at/de/geog
 raphie/studium/ausland/



Individual focus:

- Interdisciplinary competences (10 ECTS)
- Other courses outside Earth Science (20 ECTS)
 (e.g. from Geography, Climatology, Biology, Engineering Sciences, etc)

Package "Window of Opportunity": 30 ECTS

https://www.uibk.ac.at/studium/angebot/wahlpakete/

Wahlpakete (Ergänzungen)



Wahlpakete (Ergänzungen) sind Module im Umfang von 30 ECTS-AP, welche die fachlichen Inhalte um Inhalte anderer Fachdisziplinen/Studien, die nicht aus dem eigenen Studium stammen, ergänzen.

Example:

Digital Science

Nähere Informationen »

Studierende eines facheinschlägigen Informatikstudiums können die Ergänzung Digital Science nicht absolvieren.

Modulstruktur

- 5 ECTS-AP Einführung in die Programmierung
- 5 ECTS-AP Einführung in das Datenmanagement
- 10 ECTS-AP Datenanalyse
- 5 ECTS-AP Aspekte der Digitalisierung
- 5 ECTS-AP Data Analysis Lab



- Erasmus

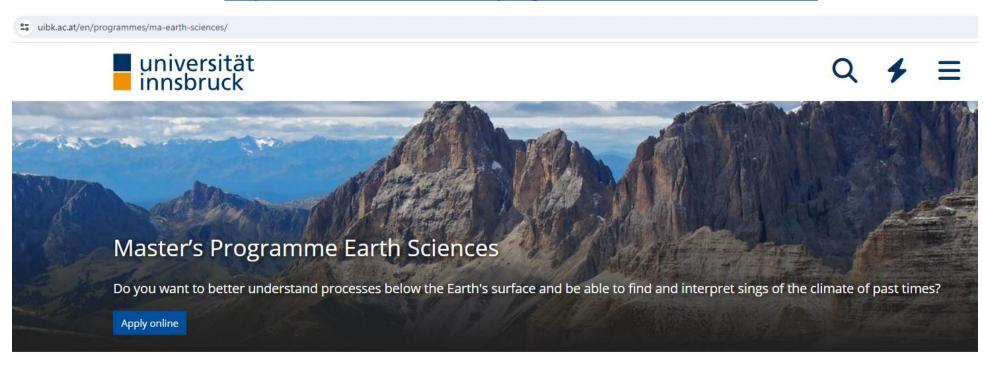


Practical Information:

where do I find info?



Official information: https://www.uibk.ac.at/en/programmes/ma-earth-sciences/



Which processes take place below the Earth's surface? How often do earthquakes occur? Where do you find signs of the climate of past geolocial times? What influences the properties and quality of ceramics?

The students of the Master's Degree Programme in Earth Sciences develop further competencies in the analysis of geo-relevant materials and data. Students may choose an individual focus in applied areas (e.g. engineering geology, hydrogeology, natural hazards, ceramic materials) and theoretic disciplines (e.g. climate reconstruction, geochronology, geodynamics, petrology).

Master of Science

Duration/ECTS-Credits 4 semesters/120 ECTS-Credits

Mode of Study Full-time

Language German

Requirements
Relevant bachelor's degree/equivalent
and <u>Language Certificates</u>

Faculty

<u>Faculty of Geo- and Atmospheric</u> <u>Sciences</u>

Level of qualification Master (Second Cycle) ISCED-11: Level 7, EQF/NQF: Level 7

ISCED-F 0532 Earth sciences

Study code UC 066 815



Official information: https://www.uibk.ac.at/en/programmes/ma-earth-sciences/

General

Requirements

Course Sequence

Minor

Supplementary Programme

Examination

Forms

Contact and Information

The curriculum is the basis of a degree programme. A look at the curriculum for the Master's Programme Earth Science will give you a detailed overview of the structure, content, examination regulations and qualification profile of this Master's degree.

The curriculum can clarify several important questions before you start your studies. For example, which criteria have to be fulfilled for enrolment in the Master's Programme Earth Science, how long the programme takes, which modules have to be completed and much more.

The curriculum 2021W currently applies to the Master's Programme Earth Science.

Information on the Curriculum (2021W)

The complete version of the curriculum reflects the currently valid version of the curriculum. It is for informational purposes only and is not legally binding. The legally binding version of the curriculum, including any amendments, may be found in the University of Innsbruck Bulletins.

Complete version as of 1 October 2021

Curriculum for the

Master's Programme in Earth Sciences

Table of contents

- § 1 Allocation of the study programme
- Qualification profile
- Scope and duration
- Admission
- Types of courses
- Allocation of places for courses with a limited number of participants
- Compulsory and elective modules
- Master's Thesis
- Examination regulations

§ 12 Transitional provisions

- Academic degree
- § 11 Coming into force

at the Faculty of Geo and Atmospheric Sciences of the University of Innsbruck

Curriculum:

- Description of all courses
- Information on MSc thesis
- etc.
- Legally binding



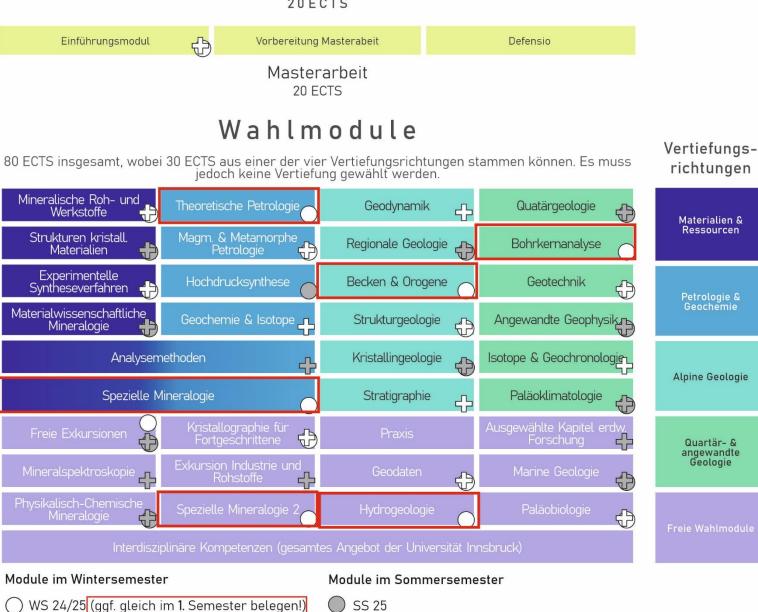
More detailed info (timeplan):

https://www.uibk.ac.at/de/geologie/studiu m/msc-erdwissenschaften/



Pflichtmodule

20 ECTS

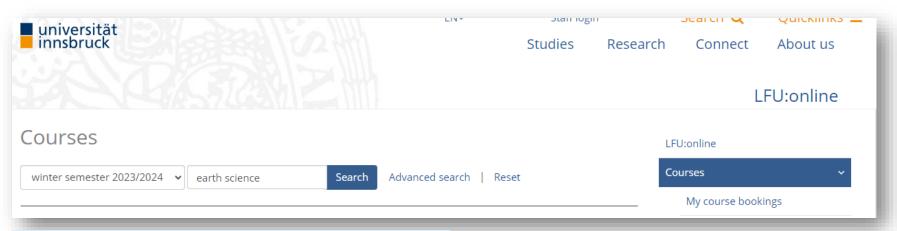


♣ SS 26

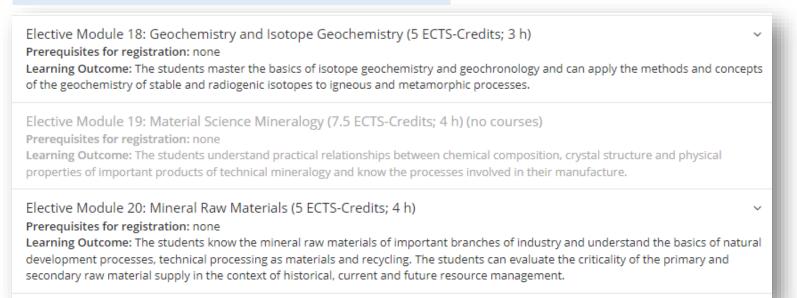
宁 WS 25/26



More detailed info (lecturers, course subscriptions): https://lfuonline.uibk.ac.at/public/lfuonline_lv.home



- What is offered in this specific semester?
- Timing of classes and exams?





Additional Information



https://www.uibk.ac.at/fakultaeten/geo_und_atmosphaerenwissenschaften/

Faculty of Geo- and Atmospheric Sciences ≡









Research

Studies

Departments

Organization / Contact

News und Events

Naturkatastrophen: Risiko von Gebäudeschäden besser einschätzen (07.03.2022)

Klimawandel lässt Gletscherseen in Hochasien gefährlich anwachsen (07.03.2022)

Schneeverwehungen am Gletscher modellieren (21.02.2022)

Vorgestellt: Gebirgsgefahren im Blick (20.01.2022)

Wenn es im Winter blitzt (21.12.2021)

"Girls on Ice" mit Arthur-Haidl-Preis 2021 ausgezeichnet (14.12.2021)

» all News and Events

We introduce ourselves

Bastian Joachim-Mrosko, Department of Mineralogy and Petrography



» further academic staff



Academic Year 2024/2025

	Winter Semester 2024/2025	Summer Semester 2025
Online application for Bachelor's, Diploma and Master's Programmes without selection procedures	till 05.09.2024	till 05.02.2025
Registration für study programmes with selection procedures	Admission Procedures	no registration for the summer semester (excluding Admission examination to prove the sporting aptitude)
General Admission Period for Bachelor's and Diploma Programmes	08.07.2024 - 05.09.2024	07.01.2025 - 05.02.2025
Exceptions for Bachelor's and Diploma Programmes	06.09.2024 - 31.10.2024	06.02.2025 - 31.03.2025
Admission Period for Master's Programmes	08.07 31.10.2024	07.01 31.03.2025
Application Period (for non-EEA citizens and stateless persons)	until 15.05.2024	until 15.10.2024
Admission Period for non-EEA citizens and stateless persons	08.07 05.09.2024	07.01 05.02.2025
Registration for the Continuations of Studies Paying of the Austrian Students' Union Fee/Tuition Fee	until 31.10.2024	until 31.03.2025
Teaching and Examination Period	01.10.2024 - 07.02.2025	03.03.2025 - 28.06.2025

» Holidays



Informationen zum ÖH-Beitrag/Studienbeitrag

Am Beginn nur ÖH-Beitrag

Ordentliche Studierende mit einer Staatsbürgerschaft aus der EU/EWR/CH und ihnen Gleichgestellte, die für ein Bachelor-, Diplom-, Master- oder Doktoratsstudium zugelassen werden, bezahlen zu Beginn des neuen Studiums nur den ÖH-Beitrag. Für die Fortsetzungsmeldung des Studiums müssen Studierende, die sich innerhalb der vorgesehenen Studiendauer (+ Toleranz) befinden, jedes Semester ebenfalls nur den ÖH-Beitrag fristgerecht einzahlen.

ÖH-Beitrag im Studienjahr 2022/2023: € 21,20

ÖH-Beitrag im Studienjahr 2023/2024: € 22,70

Wer muss den Studienbeitrag bezahlen?

Der Studienbeitrag ist zu bezahlen, wenn

- die beitragsfreie Zeit (vorgesehene Studiendauer eines Bachelor-, eines Master- oder eines Doktoratsstudiums bzw. eines Studienabschnitts eines Diplomstudiums + zwei Toleranzsemester) überschritten wurde
- auf Grund der Staatszugehörigkeit Beitragspflicht besteht
- ein außerordentliches Studium (z.B. zur Belegung einzelner Lehrveranstaltungen, Studienberechtigungsprüfung) betrieben wird.

Der Studienbeitrag beträgt € 363,36 pro Semester (A, EU/EWR, CH) bzw. für Drittstaatenangehörige € 726,72 pro Semester. Neben dem Studienbeitrag ist auch der ÖH-Beitrag zu zahlen (s.o.).