



TUBAF

Die Ressourcenuniversität.
Seit 1765.



From Deep Sea to Space

Study at Technische Universität Bergakademie Freiberg in Germany! 

The City of Freiberg



The City of Freiberg

40,485 inhabitants
(status: December 2022)



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40,485 inhabitants
(status: December 2022)



The City of Freiberg

Freiberg is part of the
UNESCO World Heritage Region
“*Montanregion Erzgebirge/
Krušnohoří*”



Welterbe Montanregion
Erzgebirge/Krušnohoří



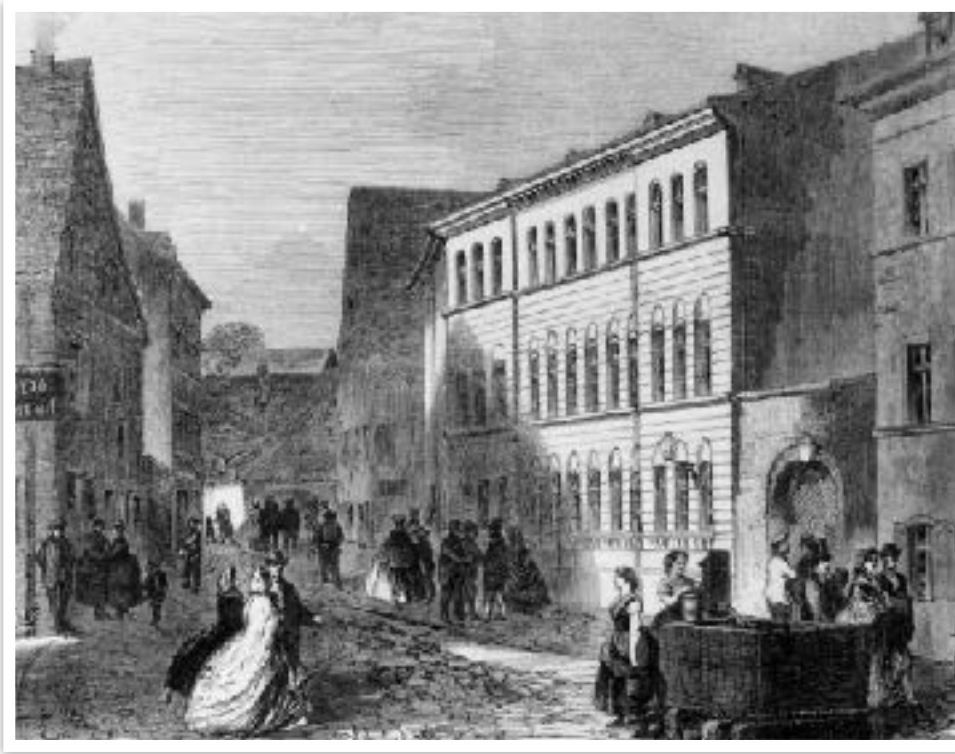
— Altenberg

The Mineral Exhibition *terra mineralia* in Castle Freudenstein



The most beautiful mineral specimens from all over the world have been collected for this unique mineral collection. *terra mineralia* offers a mineralogical journey around the world with more than 3.500 mineral specimens from famous sites in Europe, Asia, Australia, Africa and America.

About TUBAF – Foundation

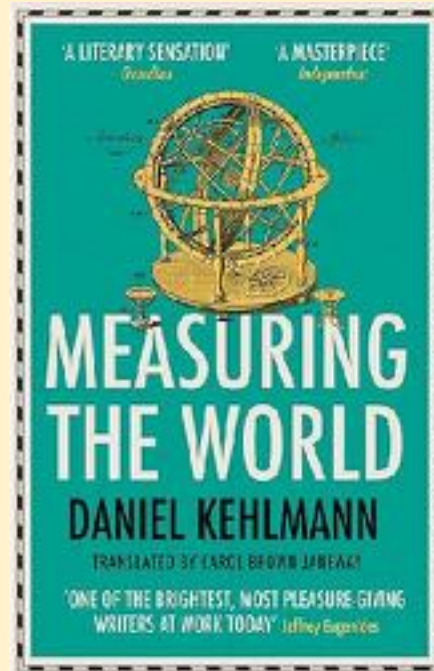


The “Bergakademie Freiberg” was founded in 1765 as a higher educational institution for mining and metallurgy. Today, TUBAF is worldwide the oldest school of mining that existed continuously.

Famous People at TUBAF

The natural scientist **Alexander von Humboldt (1769 – 1859)** studied mining engineering in Freiberg

Tip for literature:
(sold 6 million times
worldwide,
translated into 40+
languages)



Alexander von Humboldt in Freiberg



Inventions of Scientists at Bergakademie Freiberg

- The chemical elements *Indium* (Ferdinand Reich und Theodor Richter, 1863) and *Germanium* (Clemens Winkler, 1886) were discovered in Freiberg



Pure Indium



Elemental Germanium

- August Wilhelm Lampadius (1772 – 1842): First gas technology to light up the streets at night on the European continent (after England)



Replica of Lampadius' gas-powered street lighting

TUBAF Today – Facing the Challenges



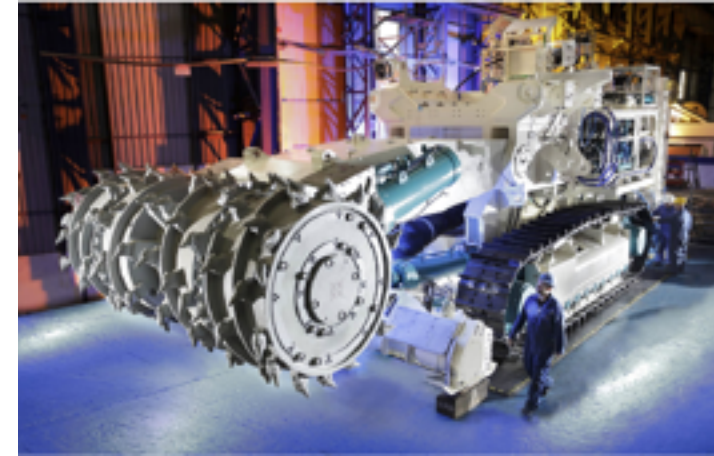
Examples of current research projects:

- **Mining Engineering:** Sustainable raw materials extraction, Raw materials from mining dumps, Water treatment in post-mining landscapes
- **Process Engineering:** Green Fuels, Environmentally friendly mining of high-tech elements
- **Experimental physics:** High-efficiency battery storage
- **Economics:** Circular Economy, Energy and Resource Management
- **Chemistry:** Selective extraction of electronic valuable materials from fly ash, Refining sewage sludge into high-quality phosphoric acid

Task: Cutting solid rock under water



Cutting test rig at TUBAF: A water filled box with rock material, the green cover is for splashback

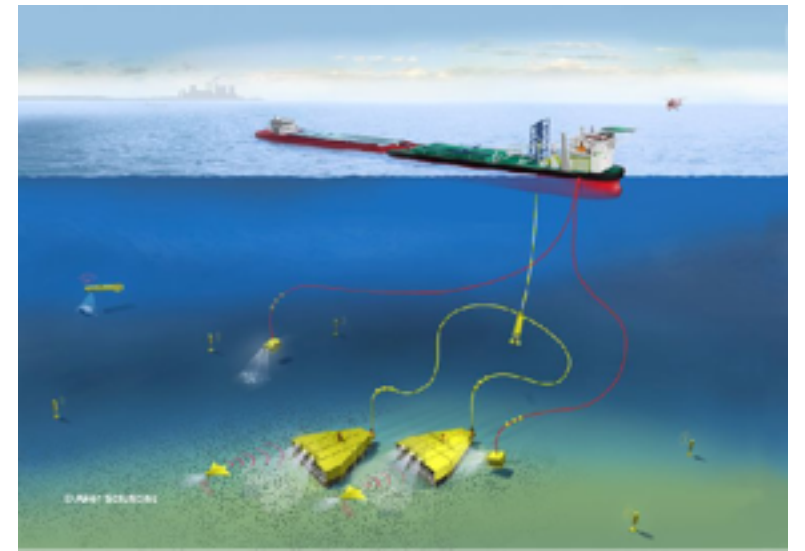


Bulk cutter for mining deep-sea seafloor massive sulfides; source: Nautilus Minerals



Round shaft chisel while cutting rock under water

Task: Lifting material from great depths in the ocean (more than 3,000 m)

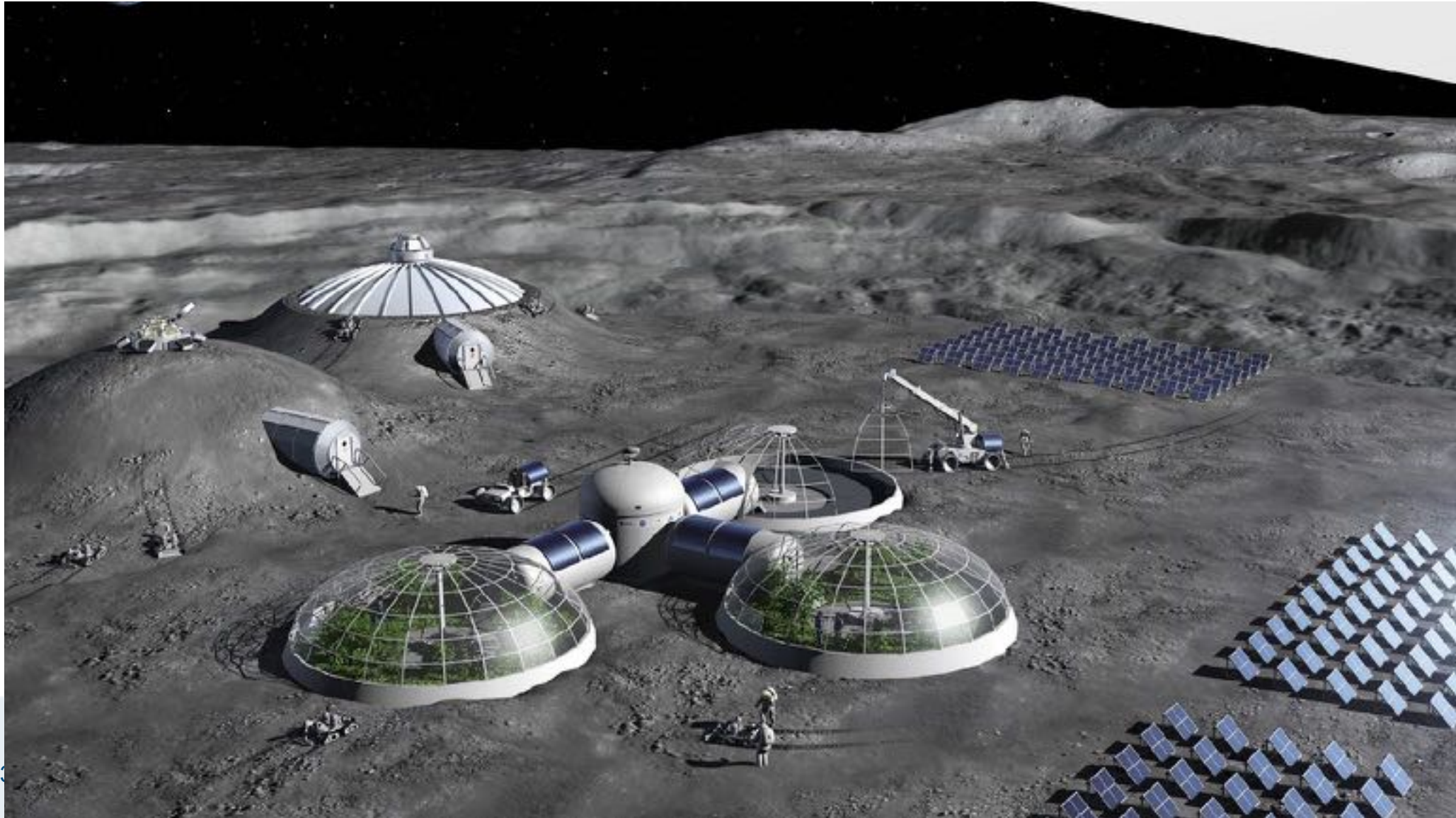


Design and parameters of the laboratory airlift

The designed construction of an laboratory airlift, installed underground in the experimental mine „Reiche Zeche“ in Freiberg.

Bachelor Program „Space Resources“

Starting in winter semester 2024/2025



TUBAF – Profile

- The study profile is divided into the fields of **natural sciences, earth sciences, engineering sciences, materials research and economics**.
- Teaching is characterised by **practical orientation** (internships, work in the laboratory and on test rigs).

TUBAF – Facts and Numbers

Degree Programs (status 15 October 2023)

68 degree programs

3 types of degrees: Bachelor, Master, Diplom

Students (status: 01 November 2023)

4.215 students

Graduates (academic year 2022/2023)

604 graduates

Semester fee

94 €



International Students

4.215 Students

55 % From Abroad



Status: 01 November 2023

Illustration by rawpixel.com

TUBAF in University Rankings

QS World University Rankings by subject

Category „Mineral & Mining Engineering“

18th worldwide

Center for World University Rankings

Among the top 10% in terms of
research performance in 2023

CHE-Ranking 2022/23 (for Germany):

Students of *Mechanical Engineering, Process Engineering, Materials Science and Business Administration* state **very good to good study conditions** at TUBAF.



The students gave particularly good marks in the categories **Organization of Studies** and **Learning in Small Groups**.

TUBAF – Structure: 6 Faculties

Faculty of Mathematics and
Computer Science (F. 1)



Faculty of Chemistry and
Physics (F. 2)



Faculty of Geosciences, Geoengineering
and Mining (F. 3)



TUBAF – Structure: 6 Faculties

Faculty of Mechanical,
Process and Energy
Engineering (F. 4)



Faculty of Materials Science
and Technology (F. 5)



Faculty of Business
Administration (F. 6)



Choose a Study Program

- Currently, TUBAF offers 68 degree programs (type of degree: Bachelor, Master or Diplom)
- 13 Master's programs are taught in English



<https://tu-freiberg.de/study-programs>

The screenshot shows the website interface for TU Bergakademie Freiberg. At the top, there is a navigation bar with the university logo, 'Fakultät K Produktion', 'Dienstleistungen', 'DE', 'Search', and 'Menu'. Below the navigation bar, the page title is 'Abschlüsse Studiengang Sprache'. The main content is a table listing various study programs with their respective degree types and languages.

Abschlüsse	Studiengang	Sprache
Bach.	Additive Manufacturing (technology, material, design)	DE
Dipl.	Advanced Components: Materials for Mobility	DE
Master	Advanced Materials Analysis	EN
Master	Advanced Mineral Resources Development	EN
Bach.	Applied Computer Science	DE
Master	Applied Computer Science	DE
Dipl.	Applied Mathematics	DE
Bach.	Applied Natural Science	DE
Master	Applied Natural Science	DE / EN
Master	Automotive Construction: Materials and Components	DE
Master	Business Administration	DE
Bach.	Business Administration	DE
Dipl.	Business Administration for Resource Management	DE

Qualification for Admission

B1 certificate
in German

- Required at
time of
application



B2
Intensive
German
Course

- 1.250 €



C1
Intensive Ger
man Course

- 1.250 €



DSH-2 exam



Admission



German courses offered at TUBAF; „conditional admission“ required

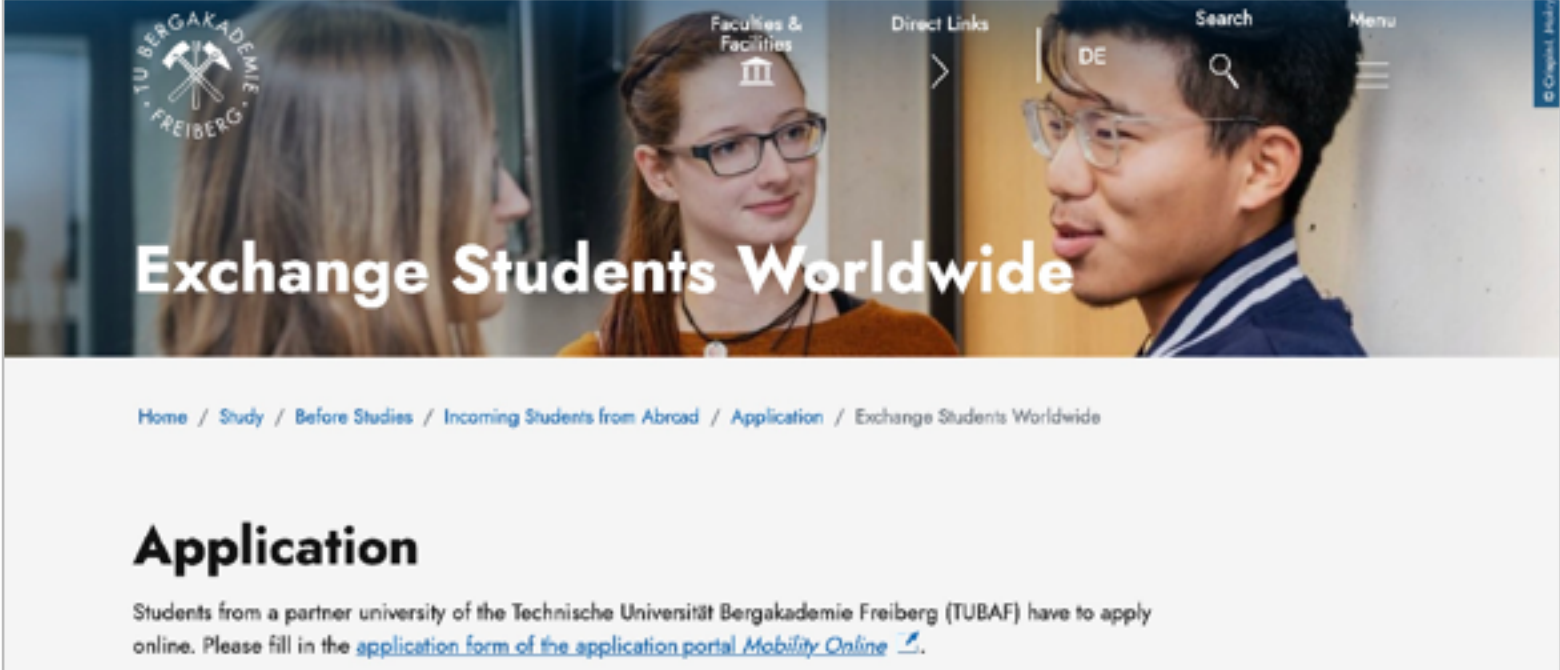
Application



<https://tu-freiberg.de/en/application>

Exchange Studies for max. 2 semesters without achieving a degree

- English level B2 required (IELTS, TOEFL certificate required)
- Select modules that can be recognized for your studies at your home university
- Application deadlines: Study start winter semester: 30 April, summer semester: 31 October



Home / Study / Before Studies / Incoming Students from Abroad / Application / Exchange Students Worldwide

Application

Students from a partner university of the Technische Universität Bergakademie Freiberg (TUBAF) have to apply online. Please fill in the [application form of the application portal Mobility Online](#).



<https://tu-freiberg.de/en/international/exchange>

Visa and evidence of adequate financial resources to study in Germany

“From 1 January 2023, the presumed annual requirement that must be paid into the blocked account when applying for a visa amounts to **11,208 euro**.

The account may only permit the withdrawal of a certain amount per month (for students this is currently 934 euro).”

Source: German Federal Foreign Office

<https://www.auswaertiges-amt.de/en/sperrkonto/388600>

Life in Freiberg



Around 1.000 Places in Dormitories Available



Prices between 235 and 380 € per month

Die 4er WG



Die klassische WG Form mit Gemeinschaftsküche und gemeinsamer Badnutzung für 4 Personen.

Wohnanlage Winklerstraße - Haus 12

Wohnanlage Winklerstraße - Haus 12

Geo-Ableitung

Essen

Miete pro Person

275 €

Ausstattung

Gemeinschaftsküche

eigenes Bad

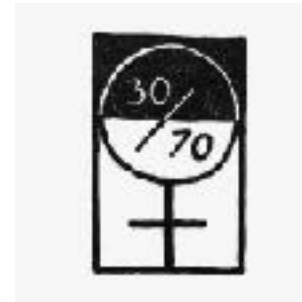
Grundausstattung

Ansprechpartner

Standort anzeigen

Zum Online-Antrag

Clubs and Societies



...und weitere



Sports Courses



Sports Courses

- 40+ sports courses
- 80+ dedicated exercise leaders
- 800 to 1,200 athletes
- A 2.5 hectare multi-sports facility with stadium, athletics track, beach and tennis courts, two sports halls and a weight and cardio room for individual use

Website: <https://www.tubaf.plus>



Sportkurse



Arm Yoga

Tu, was bei anderen nur alle Gelenke machen - ArmYoga und Yoga in einem LL...

[Zu den Kursen >](#)



Allgemeine Fitness Damen (AFD)

Dieser Kurs ist speziell für Damen über 50 Jahre konzipiert. Natürlich dürfen...

[Zu den Kursen >](#)



Badminton

In den Spielstunden können Grundschläge und Schlagvarianten erlernt und Einzu...

[Zu den Kursen >](#)



Badminton

Badminton spielen wir ausschließlich in der Halle. Unsere Kurse sind darauf ...

[Zu den Kursen >](#)



Body Total / fit & beweglich

Unser neuer Kurs FIT & BEWEGLICH spricht auf jeden an. Du suchst zum einen ...

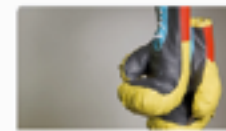
[Zu den Kursen >](#)



Boogie Woogie - THE PINK PETTKOATS

Infies zum Verlieb: Der "The Pink Pettkoats e.V." ist ...

[Zu den Kursen >](#)



Buren

"Suche den Adrenalinkick, wenn du deine Fantasie beibehalten und den Busen petten ...

[Zu den Kursen >](#)



Cheerleading

Silverline Cheerleader stehen für Teamgeist und ...

[Zu den Kursen >](#)



Chinesische Sportgruppe / 中国武术

Dieser Sportangebot richtet sich aktuell an chinesische Studenten und Beschü...



Eislaufen

Immer nur im Kreis Schlittschuhlaufen ist ungesund! In diesem Kurs & 12 Kur...



Fechten

Sportfechten ist eine Zweikampfsportart, welche im Einzel- oder Mannschaftsw...



Flag Football

Flag Football ist im Wesentlichen die kontaktlose oder -arme Variante des Amic...



Activities to Clear the Head

The area is ideal for outdoor activities:

Hiking, climbing or cycling in the low mountain ranges “Elbsandsteingebirge” (“Elbe Sandstone Mountains”) as well as “Erzgebirge” (“Ore Mountains”) or simply in the surrounding area of Freiberg with pretty villages and castles and palaces worth seeing



Vivid City of Freiberg – Tourism and Festivals



Bergstadtfest



Eisbahn im Schloss



Silberstadtbahn



Grube „Alte Elisabeth“



Nacht der Wissenschaft

TUBAF – Social Media



TU Bergakademie Freiberg
TUBAF Studenten



@TU_Bergakademie_Freiberg
@TUBergakademie
TU Bergakademie



#tubaf
#bergakademie

**We thank you for your
attention!
Do you have questions?**



#tubaf