

# TU Bergakademie Freiberg

## Zentrale Transferstelle / Central Transfer Office



TECHNISCHE UNIVERSITÄT  
BERGAKADEMIE FREIBERG

Die Ressourcenuniversität. Seit 1765.



### GENERAL INFORMATION

Managing director, head of organisation	Prof. Dr.-Ing. Rudolf Kawalla (vice-rector of research)
Country	Germany
Address	Akademiestraße 6 09599 Freiberg
Telephone	+49 3731 39 2552
URL	<a href="http://tu-freiberg.de">http://tu-freiberg.de</a>
Year of foundation (if applicable)	1765
Number of employees, working in transfer processes	approx. 500 scientists in the area of transfer relevant research
Type of organisation	university

#### Aim/role with respect to the transfer process

Die TU Bergakademie ist eine der weltweit führenden Universitäten im Bereich der Ressourcentechnologien sowie der Werkstoff-, Material- und Prozessforschung. Im Bereich der anwendungsorientierten Forschung kooperiert sie weltweit mit Partnern aus der Wirtschaft und der Wissenschaft sowie gesellschaftlichen Einrichtungen. Dabei deckt die TU Bergakademie Freiberg das gesamte Spektrum an Transferangeboten ab, von der gemeinschaftlichen Forschung, über die Aus- und Weiterbildung, die Ausgründung von Unternehmen und die Verwertung von Patenten bis hin zur Auftragsforschung. Dazu verfügt die TU Bergakademie Freiberg über eine hervorragende, teilweise einmalige Ausstattung und Forschungsinfrastruktur, die die Abbildung innovativer Prozesstechnologien bis zum Pilotmaßstab ermöglicht.

Über das EIT RawMaterials ist die TU Bergakademie Freiberg zudem mit den wichtigsten

The TU Bergakademie Freiberg is one of the worldwide leading universities in the fields of resource technologies, raw materials, as well as material and process sciences. In the area of application-oriented research it cooperates with scientific, social and industrial institutions worldwide. The TU Bergakademie Freiberg covers the entire spectrum of transfer offers: collaborative research, education and training, start-up of innovative enterprises, exploitation of patents, and contract research. An excellent equipment and research infrastructure allows the representation of innovative process technologies to pilot scale application. In cooperation with the European Institute of Innovation and Technology (EIT) the TU Bergakademie Freiberg brings innovation in the raw material sector from leading research institutions to the European industry.

Akteuren der europäischen Roh- und Grundstoffindustrie sowie führenden Forschungseinrichtungen vernetzt.

Main area with respect to the key topics

Ressourcentechnologien, Erkundung, Gewinnung, Aufbereitung, Verfahrenstechnik, Werkstofftechnologie, Energiewandlung, Energie- und Ressourceneffizienz, Nachhaltigkeit

Profillinien: Geo - Material - Energie - Umwelt

resource technologies, exploration, exploitation, processing, process engineering, materials technology, energy conversion, energy and resource efficiency, sustainability

profile: geoscience - material - energy - environment

Main contact person for transfer

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## OFFERED TRANSFER ACTIVITIES

### Services in terms of the identification and description of innovative and economically applicable ideas

- identification of current research results in research institutions, universities (e.g. using technology scouting)
- foster scientists in the description of the exploitable idea, focussed on its application in enterprises; preparation of transfer profiles
- technology assessment according to technical, legal and economic aspects, such as technology maturity level, patentability, standard conformity, necessary licensing procedures)

### Services in terms of the dissemination of innovative and economically applicable ideas

#### *Publish and disseminate*

- portfolio of patents: own patents and patents of research institutions, universities
- user-oriented descriptions of the idea (technology), (such as technology offers and technology files)

#### *Publication modes and media*

- various print media
- data-bases, online platforms, websites introducing innovative ideas
- newsletters/RSS
- brokerage events (events bringing together developers and potential users)/ meetings introducing economically applicable research results
- demonstrators

## Services to bring together parties that could be relevant for the application of new ideas and technologies

- implementation of visits in research institutes or enterprises
- implementation of meetings, workshops, conferences (e.g. for initiating and intensifying contacts between science and business, for discussing detail information about innovative ideas and technologies)
- sub-sequential evaluation of discussions between technology suppliers (similar to licensors) and technology users (similar to licensees), such as finding out whether the partners can go on discussing the technology/ results independently or need additional support
- organisation of topic-specific workshops, fairs or similar activities in order to foster special ideas
- initiating and presenting/ moderating bilateral and subject-specific discussions held by technology suppliers and potential users

## Services in terms of the preparation of economic exploitation of an (innovative and economically applicable) idea/ technology

- contract research (e.g. initiating, bringing together the potentially exchanging parties, project management)
- research cooperation
- consulting on technical issues in order to support the final implementation of new technologies or processes in enterprises: (e.g. support for adapting new technologies to the existing equipment in the company)
- consulting to find out and make use of the resources required for the final implementation of new technologies or processes in enterprises (e.g. support in scouting out and canvassing of funding options for the implementation of new technologies in a company, support in the management of licensing procedures)
- concepts for and execution of qualification measures for the future personnel focussed on the exploitable idea/ technology (e.g. conceptual design and implementation of trainings, e-learning, workshops)
- boosting acquisition of financing or funding of the defined transfer (e.g. consulting, bringing potential partners together)
- initiation and supervision of the personnel exchanged between research facilities and enterprises
- spin-off creation by your organisation

## Services of the economic exploitation of innovative and economically applicable ideas

- supporting patent exploitation/licensing (e.g. patent search; market analysis, foundation consulting)
- support of licensing (e.g. market analysis, legal consulting)
- supporting implementation of spin-offs based on innovative ideas/ technologies

## Services in terms of collective advancement of innovative and economically applicable ideas resp. research fields

- establishment of institutional structures for the cooperation between science and economy (e.g. endowed chairs, joint research institutions as a kind of public private partnership, associated institutes closely connected with universities)
- initiation and implementation of tools that do not follow an institutional structure (networks, discussion groups, alliances, clusters)
- support to the establishment of students' projects and looking after the students' work in the form of preliminary studies aimed at: the preparation of the implementation of innovative ideas/ new technologies in enterprises; the application of scientific results to tackle with practical problems in enterprises; the detection of deficits and bottlenecks that could make the application of new ideas and technologies in the enterprises difficult

## Geographical area of transfer activities and services

- regional
- national
- cross-border (PL ← → CZ; PL ← → GE; CZ ← → GE)
- european-wide
- world-wide

## TARGET GROUPS

### Kind of organisation

- organisations offering or developing innovative ideas/ new technologies and organisations demanding for innovative ideas or new technologies

### Businesses of target groups

- mining and quarrying
- Manufacturing
- electricity, gas, steam and air conditioning supply
- water supply; sewerage, waste management and remediation activities
- construction
- professional, scientific and technical activities
- public administration and defence; compulsory social security
- education

### Number of employees of target group organisation(s)

- < 10
- 10 - 99
- 100 - 499

## REFERENCES

### Erfolgreiche Transfervorhaben:

- Freiberg Instruments: Entwicklung instrumenteller Analytik für Halbleitermaterial
- ifn FTZ: Neuartige Technologien zur Gewinnung von Produkten in der Pharma-, Lebensmittel- und Kosmetikindustrie

### Successful transfer projects:

- Freiberg Instruments: Development of instrumental analytics for semiconductor materials
- ifn FTZ: new technologies for food-, pharmaceutical-, and cosmetic industries