

# Helmholtz-Zentrum für Umweltforschung GmbH - UFZ (Helmholtz Centre for Environmental Research)



## Knowledge and Technology Transfer

### GENERAL INFORMATION

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URL	<a href="http://www.ufz.de">http://www.ufz.de</a>
Year of foundation	1992
Number of employees, working in transfer processes	8
type of organisation	research institution

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

Als verlässlicher Partner unterstützt das UFZ Politik, Wirtschaft und Zivilgesellschaft dabei, die Folgen menschlichen Handelns für die Umwelt besser zu verstehen und Optionen für gesellschaftliche Entscheidungsprozesse zu erarbeiten. Dafür greift das UFZ gesellschaftliche Herausforderungen auf und schafft Wissen und Technologien, die helfen sollen, Probleme im Spannungsfeld von Umwelt und Gesellschaft frühzeitig zu erkennen und vorsorgeorientierte Lösungen zu entwickeln.

As a reliable partner the Helmholtz Centre for Environmental Research (UFZ) supports politics, economy and civil society to better understand the consequences of human activity and to develop options for civil decision processes. The UFZ takes up societal challenges and produces knowledge and technologies that should help to detect problems in the fields of tensions between environment and society at an early stage and to develop precautionary solutions.

#### Main area of the organisation's activities

Nature-Based Solutions zur • Nutzung alternativer chemischer Energieträger, Energiegewinnung aus neuartigen Biomassen, Kohlenstoffverbindungen, Wasserstoff und Abfallströmen mittels geeigneter Mikroorganismen oder designerter

Nature-based solutions to use alternative chemical energy sources, energy production from innovative biomass, carbon compounds, hydrogen and waste streams with appropriate microorganism or designed metabolic networks • use of

metabolischer Netzwerke • Nutzung von Photonenenergie für Gewinnung von Grundchemikalien, Bereitstellung von Wasserstoff als Energieträger • Nutzung elektrischer Energie für Synthese von Grundchemikalien, Energiespeicherung • Sanierung (Boden, Sedimente und Wasser), Aufarbeitung von wässrigen Produktionsströmen und Rückgewinnung von Wertstoffen • zum Monitoring und Modellierung von Umweltparametern (Sensoren und Sensornetzwerke, Probennehmer, Sonden), Visualisierung und Informationsnetzwerke Expertise und Forschung zu • Prozesssteuerung, Regelkreise, Sensorik, Analytik und Modellierung • Modulare Reaktorsysteme und Biokatalysatoren • Mikroorganismen (Bakterien, Pilze), natürliche Gemeinschaften und (technische) Ökosysteme • Selektive Sorbenzien.

photon energy to gain basic chemicals, provision of hydrogen as energy source • use of electrical energy for synthesis of basic chemicals, energy storage • remediation (soil, sediments and water), reconditioning of aqueous production streams and recycling of reusable materials • for monitoring and modelling of eco-parameters (sensors and network of environmental parameters, samplers and probes), visualisation and information networks • Process control, control loops, sensor technology, analytics and modelling • modular reactor systems and biocatalysts • microorganism (bacteria, fungi), natural communities and technical systems • selective sorbents.

main contact person for transfer

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## OFFERED SERVICES

### Services in term of 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 their exploitable idea, focussed on its application in enterprises
- technology assessment according to technical, legal and economical aspects, such as technology maturity level, patentability, standard conformity, necessary licensing procedures
- determination of the potential technology users' (licensees) needs and requirements
- sensitisation for technology transfer

### 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 detailed 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
- concepts for and execution of qualification measures for 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)
- 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

- initiation and implementation of tools that do not follow an institutional structure (networks, discussion groups, alliances, clusters)
- support for the establishment of students' projects and looking after the students' work in 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 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
- European-wide
- world-wide

## TARGET GROUP

### kind of organisation

- predominantly organisations demanding for innovative ideas or new technologies

### businesses of target groups

- manufacturing
- Electricity, gas, steam and air conditioning supply
- Water supply; sewerage, waste management and remediation activities
- Information and communication
- professional, scientific and technical activities

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

- >499