

TU Dresden

CIMTT Zentrum für Produktionstechnik und Organisation



## GENERAL INFORMATION

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|--|---|
| Managing director, head of organisation            | Prof. Martin Schmauder  |
| Country  | Germany   |
| adress   | Helmholtzstraße 7a, 01069 Dresden                                       |
| telephone  | +49 351 463 34653   |
| email  | cimtt@mailbox.tu-dresden.de   |
| URL  | <a href="https://tu-dresden.de/cimtt/">https://tu-dresden.de/cimtt/</a> |
| Year of foundation                                 | 1991  |
| Number of employees, working in transfer processes | 5   |
| Type of organisation                               | university  |

Aim/role with respect to the transfer process

Das CIMTT ist Kompetenzzentrum an der Fakultät Maschinenwesen und hat seinen Arbeitsschwerpunkt im Wissens- und Technologietransfer. Das CIMTT führt selbst Transferprojekte mit sächsischen Unternehmen durch. Parallel dazu forschen seine Mitarbeiter/innen an der kontinuierlichen Verbesserung und Weiterentwicklung von Transferprozessen. Ein interdisziplinäres Team mit Kompetenzen in den Bereichen Arbeitsgestaltung, Fabrikplanung, Produktionstechnik, Betriebswirtschaft, Arbeitspsychologie, Soziologie und Medieninformatik bietet umfangreiche Leistungen in der Vorbereitung und dem Management von gemeinsamen Forschungs- und Entwicklungsprojekten von KMU mit Wissenschaftlern der TU Dresden an. Sie erstrecken sich von der Unterstützung bei der Ideenentwicklung über Untersuchungen zur Wirtschaftlichkeit, das Finden geeigneter Partner aus Wissenschaft und Praxis, Unterstützung bei der Förderantragstellung bis hin zur inhaltlichen und administrativen Durchführung der Projekte.

The CIMTT Centre for Production engineering and organisation serves as a centre with strong focus on knowledge and technology transfer at the Faculty of Mechanical Science and Engineering at TU Dresden. The CIMTT implements transfer projects in cooperation with Saxon enterprises. Simultaneously the CIMTT staff conducts research for a continuous improvement and development of transfer processes between science and economy. An interdisciplinary research team integrating competences from ergonomics, factory planning, industrial engineering, economic science, occupational psychology, sociology and computer science provides extensive services in terms of preparation and management of collaborative research and development projects between SMEs and scientists from TU Dresden. These services include support for developing research ideas, profitability analyses, determination of adequate partners from science or practice, support when applying for public funding, content-related as well as administrative implementation of research and development projects.

Main area with respect to the key topics

Mechanical engineering, industrial engineering, Ergonomics, Knowledge management, Biotechnology, Innovation processes

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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
- determination of the potential technology users' (licensees) needs and requirements

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

#### *publish and disseminate*

- user-oriented descriptions of the idea (technology), 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

### 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)
- 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)

### 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 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

## 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

- Manufacturing; Professional, scientific and technical activities

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

- < 10; 10 - 99
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## REFERENCES

Folgende Aktivitäten und Projekte zeigen das Arbeitsspektrum des CIMTT auf.

- Koordinierung des Unternehmens- und Forschungsnetzwerk EISABnet zur schnellen Übertragung von Forschungsergebnissen aus dem Themenfeld „eisabweisende Oberflächen“ in die Praxis unterstützen.
  - Durchführung von 9 Innovationsbörsen zur Präsentation von anwendungsnahen Forschungsergebnissen (aus der TU Dresden) und anderen Forschungseinrichtungen sowie Unternehmen: Eine Innovationsbörse eröffnet den Teilnehmenden die Chance, sich unkompliziert in kurzer Zeit und an einem Standort konzentriert über innovative zu informieren und ins Gespräch zu kommen.
  - Besuche von Unternehmensvertretern an der TU Dresden, um laufenden Forschungsarbeiten einzelner Professuren vorzustellen, Arbeitsbedingungen kennen zu lernen und den Unternehmen Anknüpfungspunkte aufzuzeigen.
  - Durchführung eines Innovationsforums aus Unternehmen, Forschungseinrichtungen und Hochschulen zur Initiierung eines strategischen Bündnisses im Technologiefeld Profilverherstellung.
  - Initiierung und Betreuung eines Projektes zur Entwicklung und Erprobung eines Technologiedemonstrator für die Herstellung von Profilen mit dem Gleitziehbiegeverfahren.
  - Untersuchungen zur Wirtschaftlichkeit eines Verfahrens mittels Cyanobakterien sekundäre Zellinhaltsstoffen für die Anwendung in naturnahen Kosmetik- und Pharmaprodukten zu entwickeln.
  - Betreiben des Internetportals "Innovation pipeline", das u.a. Technologiedossiers aktuell anwendungsbereiter Forschungsergebnisse an der Fakultät Maschinenwesen enthält.
- Following activities and projects demonstrating the working range of the CIMTT:
- Coordination of the enterprise and research network „EISABnet“ with aim to support an accelerated transfer of research results from the area anti-ice and anti-ice-coatings to practice
  - Realisation of 9 innovation exchange expositions to present application-oriented research results (from TU Dresden), other research institutions and enterprises. This innovation exchange expositions give participants the opportunity to inform about innovations in a little while and come together at one place.
  - Organisation of visits from enterprise representatives at TU Dresden to inform about running research projects and to become more familiar with science working conditions.
  - Realisation of an innovation forum for enterprises, research institutes and universities for initiating of a strategic cooperation in the field of technology profile manufacturing.
  - support for a project to develop and test a technology demonstrator for the production of profiles with a so-called slidepullbend-procedure.
  - Investigations for economic efficiency of a procedure to develop with cyanobacterias secondary cell contents to use it in near-natural cosmetic and pharmaceutical products.
  - Administration of a website called “innovation-pipeline” where technology dossiers of ready for use technology results are placed.