

# Fraunhofer-Institut für Werkzeugmaschinen und Umformtechnik IWU/ Fraunhofer Institute of machine tools and forming technology

Strategie und Internationales/Forschungsplanung



## GENERAL INFORMATION

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URL	<a href="https://www.iwu.fraunhofer.de">https://www.iwu.fraunhofer.de</a>
Year of foundation	1991
number of employees, working in transfer processes	3
Type of organisation	research organisation
Aim/role with respect to the transfer process	<p>Die Fraunhofer-Gesellschaft ist die größte Forschungsorganisation für anwendungsorientierte Forschung in Europa. Wesentliche Forschungsfelder sind Menschen:Gesundheit, Sicherheit, Kommunikation, Mobilität, Energie und Umwelt. Der Schwerpunkt im Transferbereich besteht in der Überführung anwendungsbereiter Forschungsergebnisse in die Industrie.</p> <p>The Fraunhofer Society is Europe´s largest research organisation for application-oriented research. Main fields of research are: humans, communication, safety, health, mobility, energy and environment. The focus in the area of knowledge and technology transfer lies on the transfer of research results, ready for use, into the industry.</p>
Main area with respect to the key topics	<p>Fraunhofer IWU: Produktionsforschung, vor allem im Bereich Maschinen- und Anlagenbau sowie Automotive, Schwerpunkte in den Bereichen Umform- und Zerspantechnologie sowie Energie- und Ressourceneffizienz</p> <p>Fraunhofer IWU: production research, particularly in the area of mechanical and plant engineering and automotive; thematic focuses are the forming and machining technology as well as energy and resource efficiency.</p>
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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
- 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

### 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

#### *publication modes and media*

- various print media
- data-bases, online platforms, websites introducing innovative ideas
- 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: regarding the technological portfolio of IWU
- 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)
- organisation of topic-specific workshops, fairs or similar activities in order to foster special ideas: IWU in-house with technology importers / customers
- initiating and presenting/ moderating bilateral and subject-specific discussions held by technology suppliers and potential users for the technology portfolio

### 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)

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

- supporting patent exploitation/ licensing (e.g. patent search; market analysis, foundation consulting): within the institute IWU
- support of licensing (e.g. market analysis, legal consulting): within the institute IWU

### 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): to external networks mainly regionally; at technical level throughout Germany; FhG about alliances and associations
- 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: IWU homepage/job market

### geographical area of transfer activities and services

- regional
- national

## TARGET GROUPS

### kind of organisation

- predominantly organisations demanding for innovative ideas or new technologies

### businesses of target groups

- Manufacturing
- Information and communication

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

- < 10
- 10 - 99
- 100 - 499
- >499