

The aim of the Institute is the processing of industrial research topics to build a bridge between research and industrial utilization.

The cooperation with national and international companies is very important to realize the step from fundamental research to industrial implementation.



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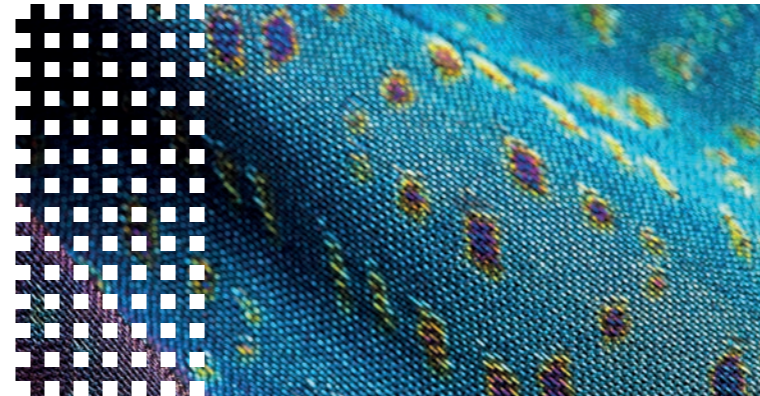
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Institute for  
Material Sciences (ifm)

From Research to  
Industrial Solutions



The Institute for Material Sciences (ifm) concentrates the research capacities of the Faculty of Engineering of the University of Applied Sciences Hof, to use the existing know-how as well as the machine systems and laboratories on 5.500 m<sup>2</sup> in Hof and Münchberg.



The focus of the ifm is on the development of modern functional materials.

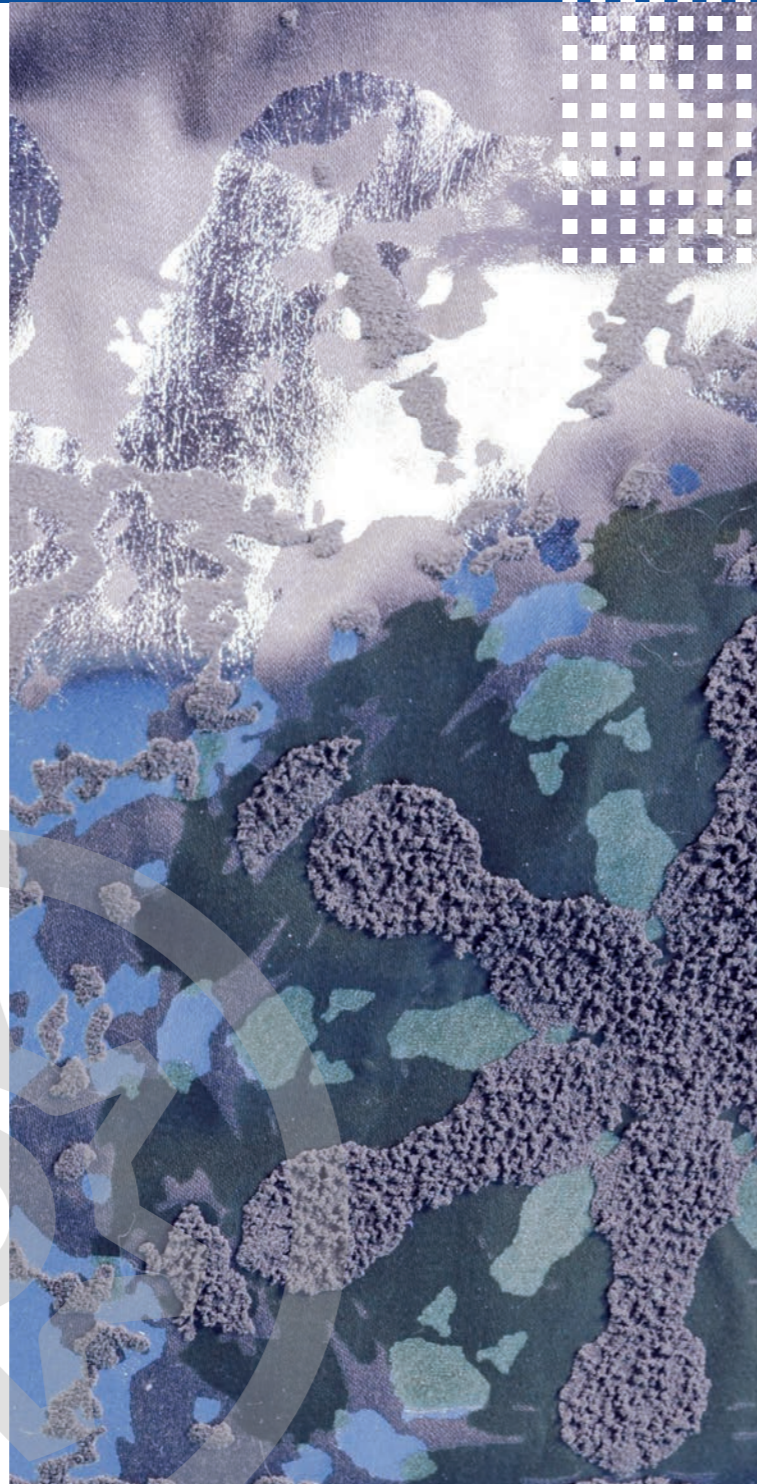
Those high technological materials are indispensable because of their special mechanical, chemical, electrical or optical properties.

Advantages:

- saving resources
- recyclability
- saving energy by lightweight constructions
- improved and new functionalities
- surface modification

The functional materials can be used as polymers, innovative textiles or semi-conductors in modern technologies as medical technologies, architecture, solar or computer technology.

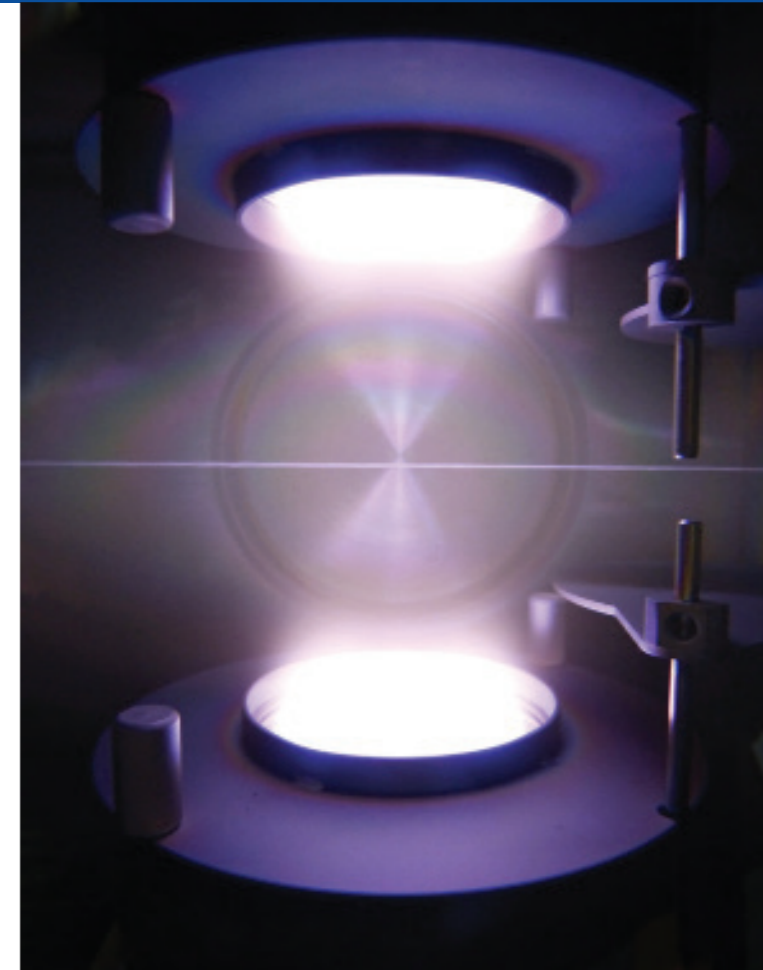
At the moment, the Institute has intensive research activities on the field of Composites.



Dwindling resources and increasing ecological demands on the production and the recyclability of materials require the development of intelligent materials and material systems.

Modern materials reduce the energy consumption by using lightweight structures and they ensure additional improved functionalities. The surface of materials is the link between material and environment and gives the function to the final product.

Therefore, it is often necessary to start at this point to create new functionalities. For this reason, the Institute develops research activities in the fields of Composites. The existing potential of textile engineering, surface and plastics technology can be used and combined as well.



The aim of the textile research is the development of innovative growth areas to realize the change from classical textile fabrication to the high-tech industry. Textiles are created with special functionalities, new properties and in combination with other different materials by using an interdisciplinary approach. The new intelligent textile technologies acquire solutions for more efficient methods and for the production of more innovative products.