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From Research to Industrial Solution

The research capacities of the Faculty of Engineering at Hof University of Applied Sciences are bundled at the **Institute for Materials Science (ifm)** in order to be able to use the existing know-how as well as plant technology and laboratories on more than 5,500 square meters at the Hof and Münchberg sites in a target-oriented manner.

The aim of the institute is to work on industry-related research topics in order to build a bridge between basic research and industrial implementation.

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Institute for Materials Science at Hof University



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Facts

The **development of modern functional materials** is the focus at ifm.

Due to their special mechanical, chemical, electrical or optical properties, these high-tech materials have become indispensable.

Advantages:

- resource saving
- recyclability
- energy saving through lightweight construction
- improved and new functionalities
- surface modification



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

Through lightweight construction, modern materials reduce energy consumption and additionally ensure improved functionalities.

The **surface of materials** represents the determining link between the material and the environment as well as the function of the end product. In order to create new functionalities, it is therefore often necessary to start at this point.

Especially **in the field of composites**, research activities are being established at the institute. In doing so, the existing potential in the field of textile engineering, surface engineering and plastics technology can be drawn upon.

The focus of the textile research work is on the **development of innovative growth fields** in order to manage the change from classical textile manufacturing to high-tech industry.

An interdisciplinary approach is used to create **textiles with special functionalities** and new usage properties, as well as their combination with other, very different materials.

New intelligent textile technologies are used to develop solutions for more efficient processes and for the manufacture of innovative products.

