

Fields of Expertise

TU Graz's research activities are grouped into five strategic, forward-looking Fields of Expertise. Researchers engage in interdisciplinary cooperation and benefit from different approaches and methods, shared resources and international exchange.

● Advanced Materials Science

Editorial: Peter Hadley

Radiation Damage in Microelectronics

Alicja Michalowska-Forsyth,
Varvara Bezhenova

● Human & Biotechnology

Editorial: Gernot Müller-Putz

Lighting Up the Brain: LOGOS-TBI Project

Theresa Rienmüller

● Information, Communication & Computing

Editorial: Kay Uwe Römer

Stochastic Optimisation in Financial and Insurance Mathematics

Stefan Thonhauser

● Mobility & Production

Editorial: Helmut Eichlseder

Fuel Cells – Materials and Methods for Prolonging Lifetime

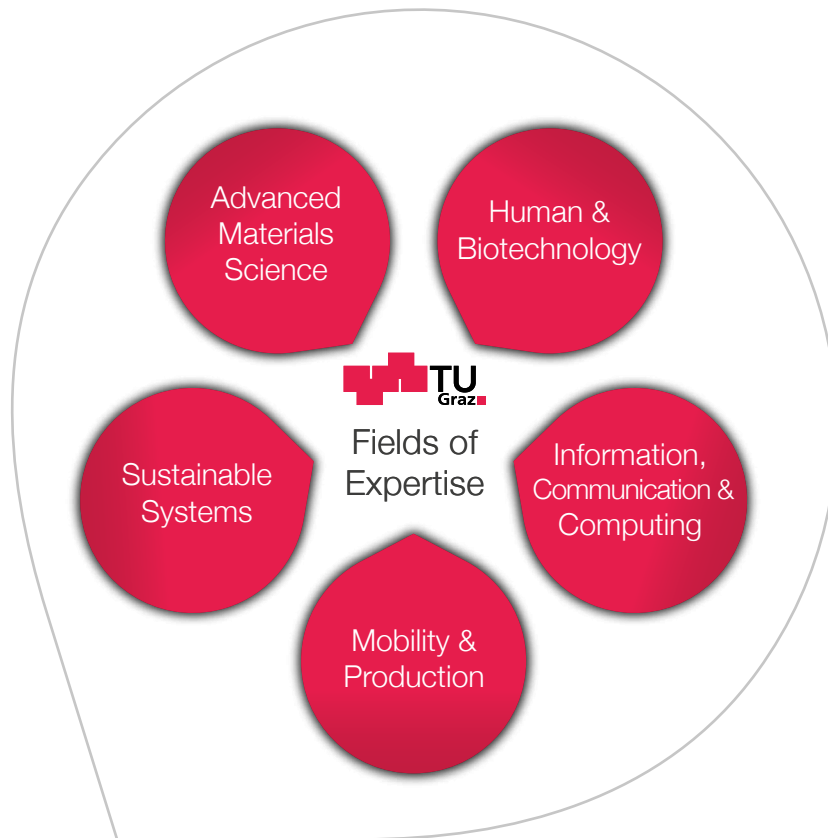
Katharina Kocher,
Kurt Mayer,
Bernhard Marius,
Bernd Cermenek,
Viktor Hacker,
Sigrid Wolf

● Sustainable Systems

Editorial: Urs Hirschberg

Advanced Control for Sustainable Energy Systems

Markus Gölles,
Martin Horn



TU Graz has divided its research into five innovative areas: the Fields of Expertise. Researchers in the Fields of Expertise break new ground in basic research. They take part in interdisciplinary cooperation, gain support for outstanding projects and are based in the region as well as part of international networks. They also develop key technologies for industry and commerce, and perform research in the framework of company shareholdings and partnerships.

Source: TU Graz

● **ADVANCED MATERIALS SCIENCE**

Researchers aim to understand the smallest components in the structure and function of new materials, and develop and assemble them in special processes.

● **HUMAN & BIOTECHNOLOGY**

Researchers develop devices and methods for medical applications and therapies, or focus on using enzymes and living microorganisms such as bacteria, fungi and yeast in technical applications.

● **INFORMATION, COMMUNICATION & COMPUTING**

Researchers face challenges prompted by the information age, for example data security and efficient use of the ever-increasing volume of data.

● **MOBILITY & PRODUCTION**

Researchers investigate novel vehicle technologies, new drive systems and more economical product manufacturing processes.

● **SUSTAINABLE SYSTEMS**

Scientists focus on the complex challenges presented by a growing population and increasingly scarce natural resources.