

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: Christof Sommitsch

From Mineral Waste to Building Materials: CD Lab ${\sf GECCO}_2$

Cyrill Grengg, Florian Mittermayr

Human & Biotechnology

Editorial: Gabriele Berg, Gernot Müller-Putz

Exploring the Aorta: Multiscale Aorta Project

Gerhard Sommer

Information, Communication & Computing

Editorial: Kay Uwe Römer

Flow acoustics

Stefan Schoder

Mobility & Production

Editorial: Viktor Hacker

Iron Oxide – The Energy Carrier of the Future

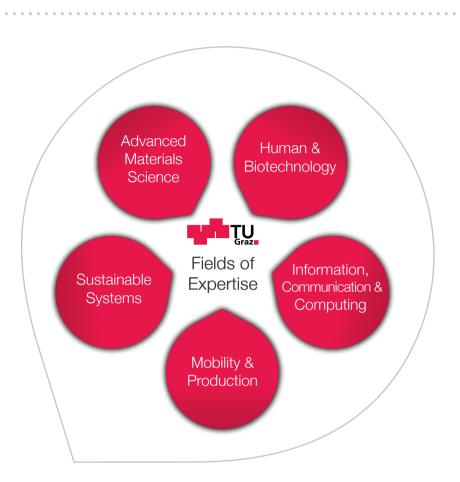
Fabio Blaschke, Michael Lammer, Magdalena Pauritsch, Bernd Stoppacher, Viktor Hacker

Sustainable Systems

Editorial: Urs Leonhard Hirschberg

Sustainable Railway Infrastructure

Matthias Landgraf



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.

MOBILITY & PRODUCTION

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

HUMAN & BIOTECHNOLOGY

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

SUSTAINABLE SYSTEMS

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

INFORMATION,

COMMUNICATION & COMPUTING
Researchers face challenges
prompted by the information
age, for example data security
and efficient use of the everincreasing volume of data.