Chair of Materials Forming

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Members of the Chair of Materials Forming are involved in the following activities: teaching, scientific research and R&D activities.
Our Chair provides courses in computational materials science, mechanics of plastic deformation, forming properties of materials, technologies of materials forming and organisation of metallurgical and materials production for higher-professional programmes, undergraduate programmes and postgraduate programmes.

We have established good contacts with foreign universities in Germany, UK, France, Austria and the Czech Republic, whereby undergraduate and postgraduate students acquiring research experience can benefit from superior equipment needed in their work. Teaching and research staff are also involved in joint projects with these foreign institutions. We closely cooperate with domestic metallurgical, metal-working and engineering industries both in the development of the existing technologies of manufacturing of semi-finished and finished metallurgical products and in the development of new equipment and technologies of materials forming. The main foci of our research are metals and their alloys, but in recent years our research interest has been extended to polymers and composite materials.

Laboratories
Our laboratories are equipped with modern instruments for performing physical and numerical simulations of forming processes, which is reflected in numerous publications in internationally recognised journals.

1. Laboratory for simulations of metallurgical thermo-mechanical states
2. Laboratory for numerical modelling simulations and materials science and metallurgy
3. Laboratory for measurement techniques and industrial measurements
4. Laboratory for the development of forming tools and equipment

Our major activities are in the field of analysing the properties of materials in plastic state and optimal use of these properties for the production of rolled, forged, pressed, extruded and bended products of massive and plated blanks. Observation, analysis and optimisation of technology chains begin with casting and end with final deformations and thermal treatment as well as with mechanical and surface treatment as appropriate.