Cooperation | development and consultation

The INM conducts research into customized microstructured and nanostructured materials and surfaces, for example for improved energy efficiency, printed electronics, medical surfaces, optical applications and applications in the oil and semiconductor goods industries. The InnovationCenter adapts these technology platforms to cater for your particular requirements. We work with you to establish the scope of the cooperation – whether it be a one-off assignment or a long-term partnership. The InnovationCenter has the staff, facilities and equipment required for the support, process development, plant development and quality assurance.

Processing | combination of material design and manufacturing process

In the InnovationCenter technical facility we develop and scale materials and processes for your company from the laboratory to the pilot phase. We offer you chemical process technology, polymer processing, particle synthesis, structuring, coating and other production methods.

Modern analytical methods

We analyze properties of materials and processes for you, for example:
- adhesion, corrosion protection, heat transfer, porosity and permeability of coatings,
- thickness, refractive index, haze of optical layers,
- conductivity, transparency and aging of electronic layers,
- particle size distribution, charge, stability, structure and cytotoxicity of nanoparticles,
- rheology, molecular mass distribution and composition of polymers and coatings,
- microstructure and nanostructure of layers, solid materials and biological samples.

Dedicated service groups perform chemical and physical analytics and can provide you with sample preparation techniques, gas chromatography, NMR, mass spectrometry, atomic absorption and atomic emission spectrometry, high-resolution and electron spectroscopy, X-ray diffractometry, X-ray spectrometric elemental analysis, nanospectroscopy and near-infrared probe methods.