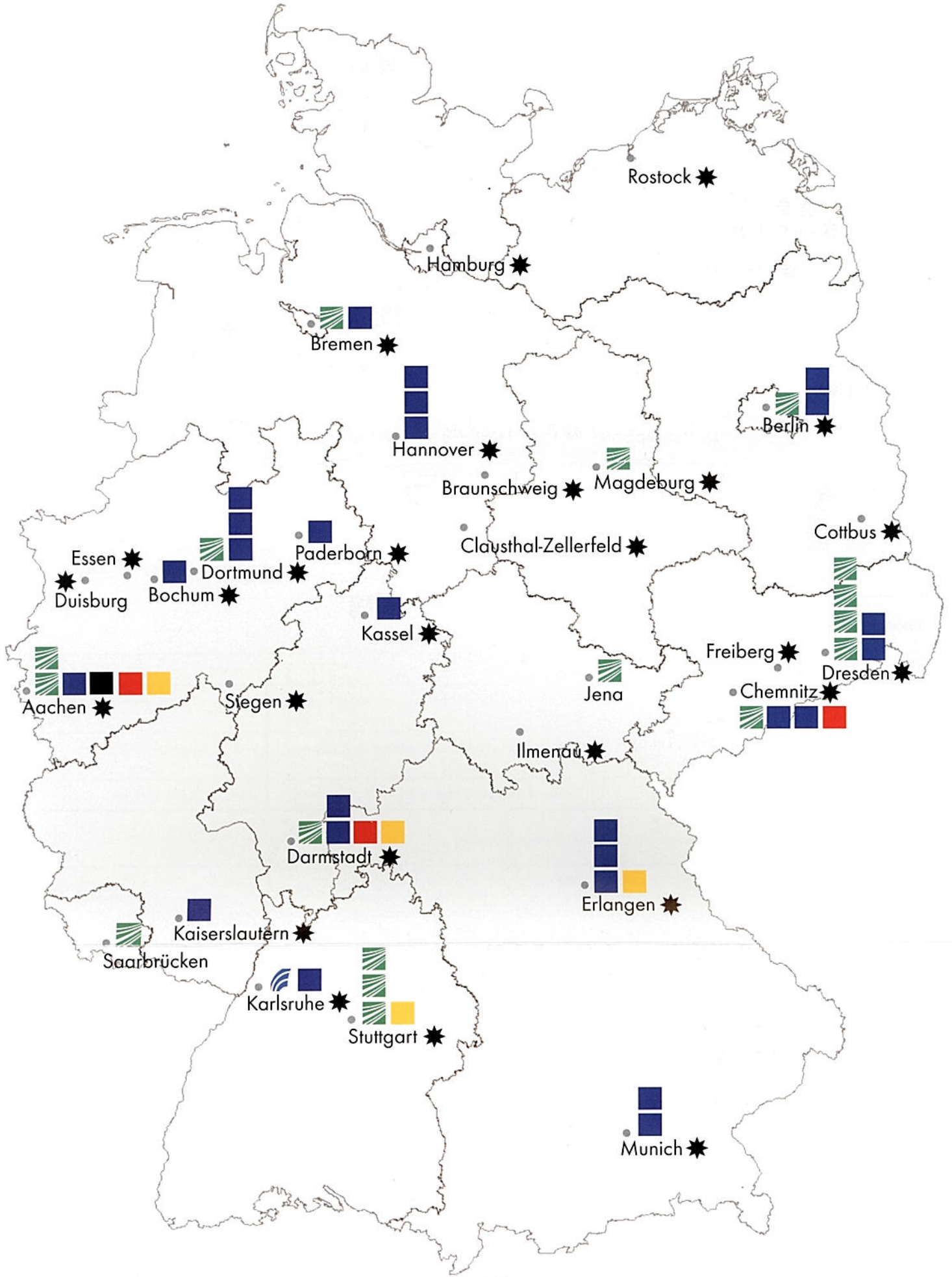




Research Landscapes in Germany

Manufacturing Science and Engineering



- University**
 with a strong department in the field of
 Manufacturing Science and Engineering
 - Non-University Research Institution**
 - Fraunhofer Gesellschaft Institute
 - Helmholtz Association Centre
-
- DFG funded projects**
 - Collaborative Research Centre
 - Research Training Group
 - Cluster of Excellence [established in the framework of the German Excellence Initiative]
 - Graduate School [established in the framework of the German Excellence Initiative]

DFG funded projects

Collaborative Research Centres

Location	Institution	Title	Contact
Aachen Chemnitz Dresden	Rheinisch-Westfälische Technische Hochschule Aachen Technische Universität Chemnitz Technische Universität Dresden	Thermo-Energetic Design of Machine Tools	www.transregio96.de
Berlin	Technische Universität Berlin	Sustainable Manufacturing	www.sustainable-manufacturing.net
Berlin Bochum	Technische Universität Berlin Ruhr-Universität Bochum	Industrial Product-Service Systems (IPS2) - Dynamic Interdependencies between Products and Services in the Production Area	www.lps.rub.de/tr29
Bremen	Universität Bremen	Micro Cold Forming - Processes, Characterization, Optimization	www.sfb747.uni-bremen.de
Chemnitz Dresden Erlangen	Technische Universität Chemnitz Technische Universität Dresden Friedrich-Alexander-Universität Erlangen-Nürnberg	Production Technologies for Light Metal and Fiber Reinforced Composite Based Components with Integrated Piezoceramic Sensors and Actuators	www.pt-piesa.tu-chemnitz.de
Darmstadt	Technische Universität Darmstadt	Control of Uncertainties in Load-Carrying Structures in Mechanical Engineering	www.sfb805.tu-darmstadt.de/sfb805
		Integral Sheet Metal Design with Higher Order Bifurcations - Development, Production, Evaluation	www.sfb666.tu-darmstadt.de/
Dortmund Erlangen Hannover	Technische Universität Dortmund Friedrich-Alexander-Universität Erlangen-Nürnberg Gottfried Wilhelm Leibniz Universität Hannover	Manufacture of Complex Functional Components with Variants by Using a New Sheet Metal Forming Process - Sheet-Bulk Metal Forming	www.tr-73.de
Dortmund Karlsruhe Munich	Technische Universität Dortmund Karlsruher Institut für Technologie Technische Universität München	Integration of Forming, Cutting and Joining for the Manufacture of Lightweight Frame Structures	www.leichtbau.de/tr10
Dortmund Kassel Paderborn	Technische Universität Dortmund Universität Kassel Universität Paderborn	Process-Integrated Manufacturing of Functionally Graded Structures on the Basis of Thermo-Mechanically Coupled Phenomena	www.transregio-30.com
Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Additive Manufacturing	www.sfb814.de
Hannover	Gottfried Wilhelm Leibniz Universität Hannover	Regeneration of Complex Capital Goods	www.sfb871.de
		Gentelligent Components in their Lifecycle	www.sfb653.uni-hannover.de
Kaiserslautern	Technische Universität Kaiserslautern	Microscale Morphology of Component Surfaces (MICOS)	www.sfb926.de
Munich	Technische Universität München	Managing Cycles in Innovation Processes - Integrated Development of Product Service Systems Based on Technical Products	www.sfb768.de

Research Training Groups

Location	Institution	Title	Contact
Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	Ramp-Up Management - Development of Decision Models for the Production Ramp-Up	www.anlaufmanagement.rwth-aachen.de

Clusters of Excellence [established in the framework of the German Excellence Initiative]

Location	Institution	Title	Contact
Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	Integrative Production Technology for High-Wage Countries	www.production-research.de
Chemnitz	Technische Universität Chemnitz	MERGE Technologies for Multifunctional Lightweight Structures	www.tu-chemnitz.de/MERGE
Darmstadt	Technische Universität Darmstadt	Center of Smart Interfaces (CSI)	www.csi.tu-darmstadt.de

Graduate Schools [established in the framework of the German Excellence Initiative]

Location	Institution	Title	Contact
Aachen	Rheinisch-Westfälische Technische Hochschule Aachen	Aachen Institute for Advanced Study in Computational Engineering Science (AICES)	www.aices.rwth-aachen.de

Darmstadt	Technische Universität Darmstadt	Graduate School of Excellence Computational Engineering (CE)	www.graduiere-school-ee.de
Erlangen	Friedrich-Alexander-Universität Erlangen-Nürnberg	Erlangen Graduate School in Advanced Optical Technologies	www.aot.uni-erlangen.de
Stuttgart	Universität Stuttgart	Graduate School of Excellence Advanced Manufacturing Engineering (GSaME)	www.gsame.uni-stuttgart.de

Priority Programmes are characterised by their enhanced quality of research through the use of new methods and forms of collaboration in emerging fields. A particular feature of the Priority Programme is the nationwide cooperation between its participating researchers across the whole of Germany.

The Priority Programmes are not included in the map. The individual projects are located at several locations throughout Germany.

Location	Institution	Title	Contact
Bochum Saarbrücken	Ruhr-Universität Bochum Universität des Saarlandes	Optically Generated sub-100 nm Structures for Biomedical and Technical Applications	www.spp1327.de
Darmstadt	Technische Universität Darmstadt	The Processes of Joining by Plastic Deformation	www.spp1640.de
Dortmund	Technische Universität Dortmund	Modeling, Simulation and Compensation of Thermal Effects for Complex Machining Processes	www.cutsim.de
Hamburg	Helmut-Schmidt-Universität Hamburg	Small Machine Tools for Small Work Pieces	www.spp1476.de
Munich	Technische Universität München	Machine Elements for Resource Efficiency	www.fzg.mw.tum.de

You can find more information on further DFG-funded projects in your field of research in the online database GEPRIIS.



You can also browse the Research Explorer. The Research Explorer contains over 19,000 institutes at German universities and non-university research institutions, searchable by geographic location, subject and other structural criteria.



Non-University Research Institutions

Fraunhofer-Gesellschaft Institutes

Location	Institution	Contact
Aachen	Fraunhofer Institute for Production Technology	www.ipt.fraunhofer.de
Aachen	Fraunhofer Institute for Laser Technology	www.ilt.fraunhofer.de
Berlin	Fraunhofer Institute for Production Systems and Design Technology	www.ipk.fraunhofer.de
Bremen Dresden	Fraunhofer Institute for Manufacturing Technology and Advanced Materials	www.ifam.fraunhofer.de
Chemnitz Dresden	Fraunhofer Institute for Machine Tools and Forming Technology	www.iwu.fraunhofer.de
Darmstadt	Fraunhofer Institute for Structural Durability and Systems Reliability	www.lbf.fraunhofer.de
Dortmund	Fraunhofer Institute for Material Flow and Logistics	www.ima.fraunhofer.de
Dresden	Fraunhofer Institute for Laser and Surface Technology	www.iws.fraunhofer.de
Dresden	Fraunhofer Institute for Ceramic Technologies and Systems	www.ikts.fraunhofer.de
Jena	Fraunhofer Institute for Applied Optics and Precision Engineering	www.iof.fraunhofer.de
Magdeburg	Fraunhofer Institute for Factory Operation and Automation	www.iff.fraunhofer.de
Saarbrücken	Fraunhofer Institute for Nondestructive Testing	www.izfp.fraunhofer.de
Stuttgart	Fraunhofer Institute for Industrial Engineering	www.iao.fraunhofer.de
Stuttgart	Fraunhofer Institute for Manufacturing Engineering and Automation	www.ipa.fraunhofer.de
Stuttgart	Fraunhofer Institute for Interfacial Engineering and Biotechnology	www.igb.fraunhofer.de

Helmholtz Association Centre

Karlsruhe	Karlsruhe Institute of Technology	www.kit.edu
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This list is not all inclusive. Listed are DFG-funded projects, non-university research institutes and universities with a major focus on Manufacturing Science and Engineering.
Source: DFG, Helmholtz Association, Fraunhofer-Gesellschaft; © DFG 2013



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