

OUR SERVICES

Working independently of individual manufacturers and suppliers, FZI scientists research markets, technologies and methods on your demand and develop prototypical solutions.

CONTRACT R&D

(in all areas of our research divisions)

- Deployment and addition of R&D expertise for SMEs
- Planning and conceptual design of interdisciplinary projects at national and international levels
- Development of innovative solution scenarios
- Support in product development
- From design to prototype

ANALYSIS AND CONSULTING

- Selection of technologies and products
- Market potential and product opportunities
- Workflows, processes, and structures
- Product and service concepts
- Feasibility studies
- Design and evaluation

TRAINING AND GUIDANCE

- Introduction of new application systems
- Workshops on state-of-the-art technologies
- Current methods and tools

SCIENCE 4 BUSINESS – BUSINESS 4 SCIENCE

Application research with reliable knowledge and technology transfer is the core business and expertise of FZI Forschungszentrum Informatik. As a non-profit institution, established 25 years ago by the State of Baden-Württemberg and the University of Karlsruhe (now Karlsruhe Institute of Technology) we deliver the results of scientific research directly to you.

FZI is the IT innovation hub in Baden-Württemberg and innovation partner of the Karlsruhe Institute of Technology (KIT).

Interested in working with us?

Contact our division managers for more information:

SE – Software Engineering

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IPE – Information Process Engineering

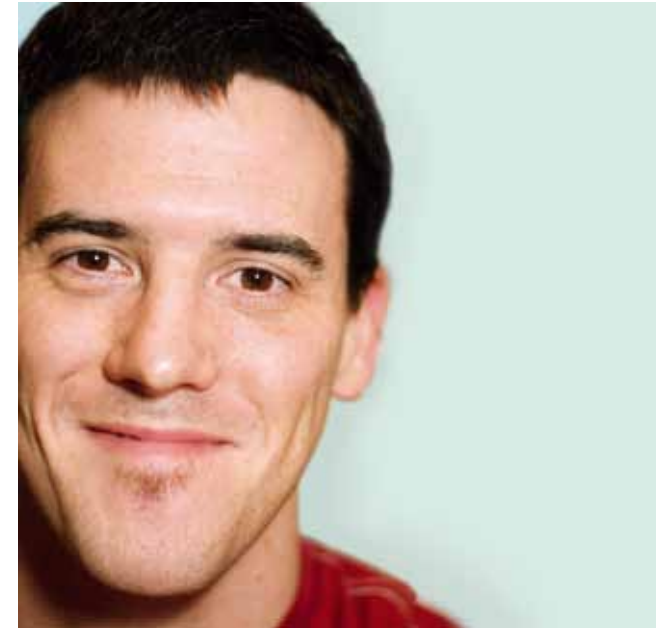
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FZI RESEARCH CENTER FOR INFORMATION TECHNOLOGY

Research on your behalf.



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FOR 25 YEARS, FZI ...

... has supported businesses and public institutions in implementing the latest methods and findings gained through scientific research in the fields of information technology, engineering and economics for economic success.

At FZI, professors from KIT and other universities and their interdisciplinary teams solve research, development and application problems in the software and systems fields. They turn the latest expertise from scientific research into innovative products and services as well as business and production processes. The researchers at FZI combine knowledge in the fields of information technology, economics, electrical engineering, mechanical engineering and logistics. For example, FZI experts create innovative application programs, tools and software/hardware system solutions as well as business solutions and processes.

The close connection between science and business ensures that research breakthroughs flow quickly into application solutions.

Young scientists join FZI to complete their doctoral degree at our institute. Working closely with customers they gain experience for future leadership responsibilities. They often move into management positions right after having worked at FZI.

As an independent research institution, FZI works for companies and public institutions regardless of company size: from small business to large corporations, from local public administrations to the European Union.

Methodical. Interdisciplinary. Cross-sectoral. Pragmatic. Qualified.

RESEARCH DIVISIONS

Four research divisions at FZI cover the entire innovation cycle in application research.

SE – Software Engineering

Using scientific engineering methods and tools, SE analyzes and improves conceptual design, development, evolution, and migration of complex software systems. Special attention paid to high quality standards guarantees the reliability, security, and cost effectiveness of software systems and compliance with industrial norms. Additionally, we offer proficiency in business process modeling, analysis and controlling.

IPE – Information Process Engineering

IPE is committed to information and knowledge and develops IT-based services for these resources, which have become increasingly important for the economy. Core competencies include outstanding technical know-how in modern software-architecture and infrastructure paradigms, solid expertise in Web 2.0/ 3.0 technologies, comprehensive knowledge of semantic technologies as well as broad skills in evaluating and designing business and incentive models.

ISPE – Intelligent Systems and Production Engineering

ISPE deals with the consistent development of next-generation technical systems. The Intelligent Technical Systems subdivision develops solutions for microelectronics designs, adaptive controllers, and overall servicing and assistance systems. The Manufacturing and Logistics subdivision designs technical systems and reliable logistics networks that use energy and resources more efficiently.

ESS – Embedded Systems and Sensors Engineering

ESS has broad technology and systems skills in the areas of electronics, software technology, optics and optoelectronics, microsystem technology and sensor technology. Consequently, the division focuses on interdisciplinary cross-technology research projects and innovative embedded-system applications in automotive electronics, industrial automation and medical technology.

STRATEGIC RESEARCH

The goal of strategic research at FZI is to develop forward-looking approaches to future challenges. Working closely with R&D partners from industry and research, teams from the four subdivisions contribute their expertise to strategic research.

- mobileIT/satellite navigation
- Automotive/semi-autonomous user-adaptive automobile (TAA)
- Ambient Assisted Living (AAL)
- Service-Oriented Application systems (SOA)
- Software-quality assessment
- Logistics
- Multicore
- eEnergy and eMobility (NEW in 2011)

FZI LIVING LABS

FZI Living Labs is a new FZI service that transforms research and development ideas into marketable products. In FZI Living Labs, project partners work with FZI professors and scientists to design, discuss, evaluate and test concepts, tools, software and systems under real-life conditions prior to market launch.

Learn more on www.fzi.de