



Fraunhofer
ACADEMY

**EXCELLENT TRAINING AND
DEVELOPMENT FOR
SPECIALISTS AND MANAGERS**

Training
Innovation
Career





FRAUNHOFER KNOW-HOW FOR YOUR SUCCESS

»With our training courses we want to help develop a new innovation culture in Germany and provide specialists and managers with the necessary skills.«

Training and development at the highest level

First-class vocational training lays the foundation for a promising career – this is true today more than ever. The pace of innovation is high, the business environment is constantly changing, and globalization is generating increasing competitive pressure from abroad. To successfully cope with all these challenges it is often no longer enough to have completed a normal course of study or a conventional apprenticeship. Lifelong learning is now a must.

Fraunhofer responded to these changes by establishing the Fraunhofer Academy in order to offer specialists and managers in business and industry an excellent range of courses. Here the training and development potential of Fraunhofer-Gesellschaft is concentrated at one center, offering a unique transfer of knowledge from Fraunhofer research to business enterprise. The latest findings from applied research are channeled directly into the teaching content, providing a genuine platform for research and innovation.

*Prof. Dr. Hans-Jörg Bullinger,
President of the Fraunhofer-Gesellschaft*

COURSES AT THE FRAUNHOFER ACADEMY

CONTENT

The Fraunhofer Academy offers specialists and managers excellent training and development based on the research activity of the Fraunhofer institutes in cooperation with selected and prestigious partner universities.

Our training and development activities break down into four segments:

- **Fraunhofer Technology Circle** opening new perspectives for the future
- **Part-time courses of study** create new career opportunities
- **Certificate programs** open up entry into new areas of work
- **Fraunhofer series of seminars** offer up-to-date, solution-oriented practical knowledge

In this brochure we present examples of current programs from the constantly growing range of courses offered by the Fraunhofer Academy.

Fraunhofer Technology Circle	Part-time courses of study	Certificate programs	Fraunhofer series of seminars
The exclusive series of seminars for technology decision-makers	Master Environmental Sciences	Industrial bonding technology	Knowledge Balance Sheet – Made in Germany
	Executive MBA for Technology Managers	Non-destructive testing	Hygrothermal component + room climate simulation
	Online Master of Building Physics	Environmental sciences	Usability Engineer
	Master Software Engineering for Embedded Systems	Fiber-composite technology	Surface Engineering and Nanotechnology (SENT)
	Diploma in Logistics Management	Technology Management – Chief Innovation Manager	
	Bachelor of Science Logistics Management	– Strategy Development Manager – Lean Six Sigma Manager	

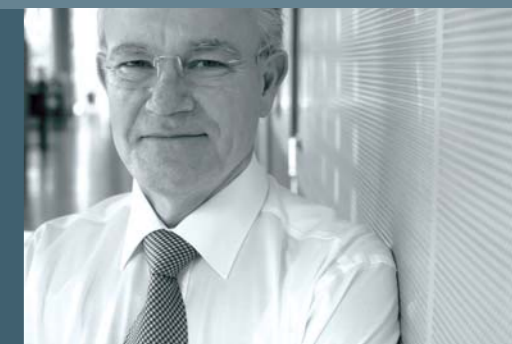
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Fraunhofer Technology Circle

»Success comes from utilizing a knowledge lead, mastering the rules of technology management and implementing innovations quickly.«

Prof. Dr. Hans-Jörg Bullinger, President of the Fraunhofer-Gesellschaft



WE WILL SHOW YOU THE FUTURE!

Managers in companies tend to focus on their own technological disciplines, but developments in seemingly distant sectors of technology can have a significant influence on the markets, products and general competitiveness of a company. New perspectives tend to open up for companies in particular at the interfaces to and between new technologies. For executives faced with the challenge of having to correctly and quickly assess the opportunities and possible applications deriving from new technologies within their company, the Fraunhofer Technology Circle offers a platform for getting to know about current technological trends in condensed form as a member of an exclusive circle.

The exchange of experience and networking with leading technology experts will enable you to correctly assess sectors of technology of relevance for the future and thus take important decisions within your company.

- As a senior executive or manager responsible for taking decisions on technology you will learn what you need to know in the Fraunhofer Technology Circle at the places where new knowledge is created.
- You will not only hear and read about innovation but experience it with all your senses.
- You will be able to assess new trends in the context of your own company and introduce new products to the market before the competition.

PART-TIME COURSES CREATE NEW CAREER OPPORTUNITIES

Anyone wishing to shape the future and gain responsibility needs skills and qualifications to prepare them today for the challenges of tomorrow. Fraunhofer stands for the first-class transfer of research knowledge into operating practice at companies. Our core expertise is reflected in the structure and content of our part-time courses of study. We know the demanding requirements of specialists and managers. Working in cooperation with our partner universities, the Fraunhofer Academy offers them the necessary tools to develop products, processes and services with a sound future.

**Master
Environmental Sciences**

**Executive MBA
for Technology Managers**

**Online Master
of Building Physics**

**Master
Software Engineering for
Embedded Systems**

**Diploma in
Logistics Management**

**Bachelor of Science
Logistics Management**



Master Environmental Sciences

»The interdisciplinary work taught me to solve problems by looking at them from various angles, and this approach can, of course, be transferred to other areas of life. Distance learning also encourages self-discipline and continuous working. What's more, I freed myself from all the old thought patterns and ventured into new fields. This has widened my horizons considerably.«

Sonja Hage, Volkswagen AG, Wolfsburg

INFERNUM – A COURSE IN SUSTAINABILITY

This accredited interdisciplinary distance-learning course in environmental sciences is based on the concept of sustainability. In cooperation with the University of Hagen distance-learning institute the Fraunhofer Institute for Environmental, Safety and Energy technology UMSICHT imparts up-to-date, practical and comprehensive environmental knowledge. This knowledge is crucial for the integration of ecological, economic and social aspects of sustainability. The course encourages networked thinking and promotes creativity and innovative capability. Participants who successfully complete the course are qualified to implement sustainable approaches to complex environmental tasks at companies and in society in general and to act as promoters with managerial responsibility and strategic foresight.

As a distance-learning course, infernum strengthens the ability to work independently and acquire knowledge in a structured manner. Manageable learning modules in the form of study letters and Internet-based exercises impart the content of the course. In addition, seminars are held and excursions arranged to strengthen contact between the course participants and the teaching scientists.

Certain course modules are available in English



PART-TIME COURSES CREATE
NEW CAREER OPPORTUNITIES



Executive MBA for Technology Managers

»Sound, comprehensive management training can only be provided by an MBA course which is rooted in expertise, which imparts knowledge, procedures and tools that have been proven in actual practice and which avoids excessive emphasis on pre-prepared cases and front-of-class teaching.«

Prof. Dr. Günther Schuh, Course Director of the Executive MBA for Technology Managers



THE EXECUTIVE MBA FOR TECHNOLOGY MANAGERS – A MASTER'S PROGRAM FOR THE FUTURE

As an interdisciplinary course incorporating elements of management, technology and business psychology, this Executive MBA course is tailored to the needs of technically experienced managers and develops the necessary skills for managing innovation on international markets. The master's program offered by the Fraunhofer Academy will qualify managers who can think entrepreneurially and who have a technical background to meet exciting challenges in their future career. The structure of our program covers the entire range of expertise required by an executive. Course content focuses on the five subject areas of technology management, strategy, corporate processes, finance and leadership / social skills.

Participants on the Executive MBA for Technology Managers course will benefit from the knowledge imparted by distinguished lecturers from RWTH Aachen, Fraunhofer-Gesellschaft and the University of St. Gallen. Designed as 20 self-contained module weeks, the course does not require any preparatory or follow-up work. The knowledge acquired can be immediately applied in day-to-day professional life.

*AACSB- and FIBAA-
Accreditation has
been applied for*



PART-TIME COURSES CREATE
NEW CAREER OPPORTUNITIES



Online Master of Building Physics

Master Software Engineering for Embedded Systems



»The Online Master of Building Physics develops experts who are able to prevent damage to buildings from the outset. The close cooperation between the Department of Building Physics at Stuttgart University and the Fraunhofer Institute for Building Physics makes this course unique worldwide.«

Prof. Dr.-Ing. Schew-Ram Mehra, Course Director Online Master of Building Physics

»Nowadays engineers of embedded systems have to be able to handle mechanics, electronics and increasingly also software without any difficulty. On this course experienced engineers will learn about the latest software engineering for embedded systems.«

Prof. Dr. Dieter Rombach, Fraunhofer Institute for Experimental Software Engineering IESE in Kaiserslautern



YOU CAN BUILD ON OUR KNOWLEDGE

DEVELOPMENT OF RELIABLE AND POWERFUL SOFTWARE SOLUTIONS

The internet-based part-time Online Master of Building Physics course is unique in Germany and Europe. Its uniqueness stems from the consistent focus on damage prevention. The sound, practical and comprehensive training provided in building physics opens up employment opportunities with a bright future. Students who successfully complete the course gain positions where they are responsible for high-performance, cost-efficient, user- and environment-friendly structures from planning through to operation. They are able to manage the complex connections and interactions of building physics and not only help to improve the building stock as a whole but also to protect the environment.

Industry and its requirements are changing dramatically. Advances in medical engineering or the automobile industry, for example, which used to be determined by mechanics and electronics, are nowadays generated mainly by software. Embedded systems, such as braking and stability control systems, take the form of complex software solutions, but training in this subject area generally lags behind. Today's engineers often lack the necessary level of training in the development of complex software solutions.

The structure of the course is explicitly geared to the needs of personnel already in employment. It comprises 80% online and 20% attendance phases in which the latest findings of research and actual practice are integrated in the carefully prepared teaching content. Participants benefit directly from the proven expertise of the distinguished lecturers from the Fraunhofer Institute for Building Physics IBP and the University of Stuttgart.

The growing complexity of reliable and powerful software for use in embedded systems creates new challenges for development engineers and managers. Technical methods and tools have advanced in recent years. Engineers of embedded systems therefore need to obtain additional training in software engineering.

The Fraunhofer Institute for Experimental Software Engineering IESE offers a unique part-time Master's course, the majority of which takes the form of distance learning from the Distance and International Studies Center (DISC) at the University of Kaiserslautern. The course is geared to international participants and is therefore conducted entirely in English.

Available in English



PART-TIME COURSES CREATE
NEW CAREER OPPORTUNITIES



Diploma in Logistics Management



»Given the growing challenges faced by the logistics sector, high-quality, professional training is becoming more and more important. The Logistics Management Diploma course opens up new career prospects.«

Prof. Dr. Wolfgang Stölzle, Professor at the University of St. Gallen, Chair of Logistics Management

Bachelor of Science Logistics Management



»We regard the transfer of logistics knowledge and expertise on a broad front as a major objective of our institute and of Fraunhofer-Gesellschaft. Students who successfully complete this course systematically transfer technologies, models and concepts which we develop at the institute to companies with lasting effect.«

Prof. Dr. Michael ten Hompel, Director of the Fraunhofer Institute for Material Flow and Logistics IML in Dortmund

INTERNATIONALLY RECOGNIZED TRAINING AND DEVELOPMENT IN LOGISTICS

Logistics has evolved as a key factor in the functioning of a modern economy. Today, traditional logistics tasks are supplemented by activities involving cross-company coordination and integration of material, goods, information and financial flows, as well as project management. As a result, the demands on logistics experts and managers have grown. Our training course is based on the St. Gallen management approach combined with progressive logistics and supply chain management knowledge. Participants learn how to successfully manage complex chains of activity that add value. In discussion with distinguished experts in the logistics field they expand their repertoire of action with the addition of innovative ideas from research and actual practice.

The Fraunhofer Institute for Material Flow and Logistics IML complements this expertise perfectly with its widely-recognised reputation in intralogistics, transport logistics, supply chain modeling and logistics IT. The Department of Logistics Management at the University of St. Gallen also contributes the knowledge of a leading research institute as regards logistics, supply chain management and transport. The high qualitative requirements for this course are reflected in the ELA certification at the highest Strategic Level.



QUALIFICATION FOR AN ATTRACTIVE FUTURE MARKET

The German logistics industry is regarded as a world leader, and German logistics expertise is therefore in demand internationally. Indeed, 30% of the entire logistics revenue in the EU is generated by German companies. To ensure that this leading position is maintained, companies need excellently trained specialist staff. These have to be qualified logistics experts with sound management know-how who are able to identify and successfully handle complex issues.

The part-time Logistics Management distance-learning course, which the Fraunhofer Institute for Material Flow and Logistics IML provides in cooperation with the European Distance Learning College Hamburg, offers the ideal training and development opportunity for up-and-coming logistics managers and ambitious new entrants to the profession. The concept behind the distance-learning course was developed by experts from the logistics management, science and research sectors and teaches participants the latest logistics technologies and essential business economics. The modules impart the decisive statutory, organizational, intercultural and linguistic qualifications which make an international career possible. Excellent career opportunities open up for participants who successfully complete the course and who can demonstrate professional experience and expert knowledge.



CERTIFICATE PROGRAMS OPEN UP ENTRY INTO NEW AREAS OF WORK

Course participants who successfully complete our professional-certificate programs are able to enter new areas of work. The latest knowledge and skills required in industrial sectors with a promising future are imparted, both in theory and practice. The courses are based on guidelines harmonized Europe-wide by the respective certification bodies and are therefore recognized internationally.

We pursue a holistic approach with our certificate programs. On the basis of in each case three complementary training levels (Levels 1-3), you will acquire the necessary skills which you can apply in the specific process chain of interest to you.

Industrial bonding technology

Non-destructive testing

- Digital Radiology
- Personnel certification for innovative testing techniques

Environmental sciences

Fiber-composite technology

Technology Management

- Chief Innovation Manager
- Strategy Development Manager
- Lean Six Sigma Manager

Competence Level 1

Independent application of the processes and procedures learnt

Competence Level 2

Independent preparation, planning, organization and monitoring of the processes and procedures

Competence Level 3

Management of the entire process chain, taking interdisciplinary requirements into account



Industrial bonding technology

»The professional training and development we provide is up to date, expert and directly applicable. This is mainly because the knowledge is imparted by the people who generate it.«

Prof. Dr. Andreas Groß, Director of the Technology Transfer and Personnel Qualification Department at the Fraunhofer Institute for Manufacturing Engineering and Applied Materials Research IFAM



CERTIFIED PERSONNEL QUALIFICATION IN THE BONDING TECHNOLOGY CENTER

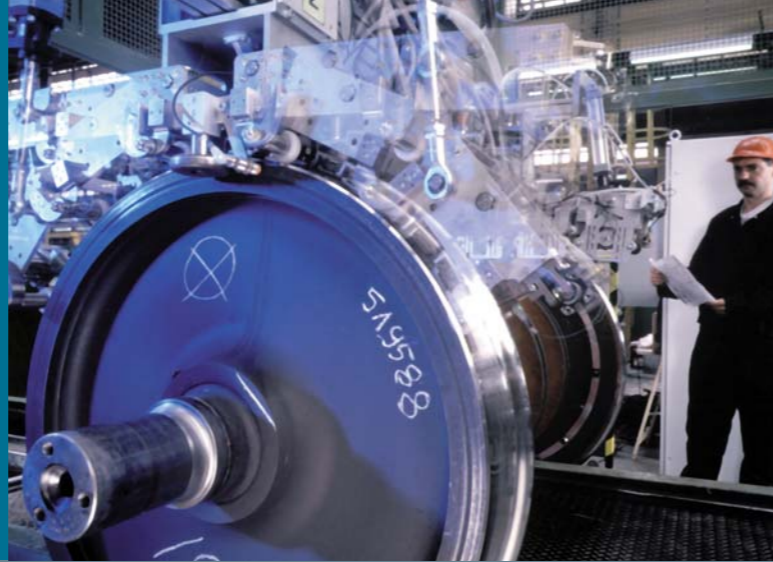


Bonding as an industrial joining technique makes it possible to combine very different materials to form high-performance systems. In important sectors of industry employees are required to have specific training and qualifications in this. The Fraunhofer Institute for Manufacturing Engineering and Applied Materials Research IFAM is Europe's biggest independent research establishment in the field of industrial bonding technology. It offers various training courses on the subject leading to internationally recognized qualifications. Bonding operatives, specialists and engineers are trained at the Bonding Technology Center, which is an accredited training establishment of the German Welding Society (DVS).

Available in English



CERTIFICATE PROGRAMS
OPEN UP ENTRY INTO
NEW AREAS OF WORK



Non-destructive testing



»In addition to research, development and professional inspection services at the highest level we also offer training in digital radiology, which is provided by highly qualified staff. As a result, economic, efficient and state-of-the-art production processes are created.«

Dr. Randolph Hanke, Head of Department at the X-ray Technology Development Center, Fraunhofer Institute for Integrated Circuits IIS

Environmental sciences

»I am grateful for the insight I have received into the subject. In particular the variety and breadth of the course content were extremely interesting.«

Klaus Gahlen, Arnsberg Regional Government, Mining and Energy Department, North Rhine-Westphalia

DIGITAL RADIOLOGY



Non-destructive testing techniques make it possible to assess the quality of a material without damaging it. Qualified testing personnel are highly sought-after in industry. The Fraunhofer Development Center for X-ray Technology EZRT offers courses in digital radiology at its Fürth location. The training content is geared to people employed in filmless radiology who have a vocational qualification in a technical occupation or many years' professional experience in the technical sector and mainly focuses on metallic materials. The training and qualification is certified by the German Society for Non-Destructive Testing (DGZfP).

PERSONNEL CERTIFICATION FOR INNOVATIVE TESTING TECHNIQUES

The Fraunhofer Institute for Non-destructive testing IZFP in Saarbrücken develops innovative testing systems for industrial quality assurance, including phased array techniques, coupling-media-free testing with electromagnetic ultrasound (EMUS) and active thermography.

The innovative, modern testing methods are validated at the testing laboratory, which is accredited to DIN EN ISO/IEC 17025. To train the testing personnel how to handle the new testing techniques, the Fraunhofer IZFP offers one-week certificate courses for personnel certification in cooperation with the Fraunhofer Academy. All the courses meet the requirements of the certification body SECTOR Cert, Gesellschaft für Zertifizierung GmbH and a recognized certificate is awarded on completion.



POINTING THE WAY TO THE FUTURE IN THE ENVIRONMENT AND SUSTAINABILITY SECTOR

The complexity of global, regional and local environmental problems requires the coordinated deployment of social and technical measures. Training to become an environmental manager will equip students with the necessary knowledge. The courses offered by the Fraunhofer Institute for Environmental, Safety and Energy Technology UMSICHT and the Distance Learning University in Hagen are designed for people with at least two years' professional experience in an environmental sector. Participants put together their own individual training program from the extremely varied course content on offer. All the modules of the interdisciplinary distance-learning course in environmental sciences can also be completed separately, with a certificate being awarded for each.

Certain course modules are available in English



Learning sustainability: infernum has been designated an "Official Project of the UN Decade of Education for Sustainable Development 2005 to 2014". This accolade certifies that Germany's first accredited interdisciplinary distance-learning course in environmental sciences is helping to turn sustainable thinking and action into reality.

CERTIFICATE PROGRAMS
OPEN UP ENTRY INTO
NEW AREAS OF WORK



Fiber-composite technology



»We have been conducting the courses since May 2007. We are delighted by the positive response from participants and the high level of acceptance in industry. After completing the training more than 80% of the course participants have found permanent employment.«

Dr. Silke Mai, Leiterin des Kunststoff-Kompetenzzentrums Bremen und Bremerhaven des Fraunhofer-Instituts für Fertigungstechnik und Angewandte Materialforschung IFAM

Technology Management



»Innovative products are the key to the success of your company. Innovation and development departments place special demands on the abilities of management. The Chief Innovation Manager certificate course is designed to provide you with individual answers to the challenges of innovation management.«

Prof. Dr. Günther Schuh, Scientific Director of and Speaker on the Chief Innovation Manager Course, Board of Directors of the Fraunhofer Institute for Production Technology IPT, Prorector for Economics and Industry at the RWTH Aachen

EXCELLENT TRAINING IN FIBER-COMPOSITE TECHNOLOGY



The Fraunhofer Institute for Manufacturing Engineering and Applied Materials Research IFAM specializes in application-oriented bonding system solutions for industry. In a four-week attended course, job seekers and people employed in the plastic-processing industry and aerospace can qualify as fiber-composite plastic technicians. On successfully completing the course they will be able to produce, process, repair and assure the quality of fiber composite structures. The theoretical content is augmented by extensive practical exercises.

CHIEF INNOVATION MANAGER

The future of a company depends on its willingness to innovate. RWTH Aachen and the Fraunhofer IPT in Aachen offer an insight into current trends and developments in innovation management. These range from technology and information management through global product development and leadership skills to subject-specific modules. The participants should be business managers, development managers or trainee executives with at least three years' professional experience in management and development.

STRATEGY DEVELOPMENT MANAGER

A suitable strategy is required to achieve success in business and to handle any crises that might occur. The Strategy Development Manager certificate course is aimed at managers and decision-makers at technology-oriented companies who are involved in strategic corporate planning. The cooperation between RWTH Aachen and the Fraunhofer IPT guarantees scientifically sound content which will enable course participants to meet the challenges of the future.

LEAN SIX SIGMA MANAGER (GREEN BELT)

The Lean Six Sigma Manager certificate course run by the Fraunhofer IPT teaches participants all the important procedures for the systematic planning and effective implementation of improvement projects. The Six Sigma core methods including statistical analysis tools and rule cards as well as essential methods of quality and improvement management are explained from a sound scientific basis and reflected in examples. A deeper understanding is also provided in practical workshops.



FRAUNHOFER SERIES OF SEMINAR OFFER UP-TO-DATE, SOLUTION- ORIENTED PRACTICAL KNOWLEDGE

The series of seminars run by the Fraunhofer Academy provide an ideal training platform for targeted transfer of knowledge with high practical benefit. In compact events Fraunhofer imparts solution-oriented technological expertise for direct application. Your company can benefit from this innovative impetus.

Knowledge Balance Sheet

Hygrothermal component and room climate simulation

Usability Engineer

Surface Engineering and Nanotechnology (SENT)



Knowledge Balance Sheet –
Made in Germany

»The knowledge balance sheet has proved to be an effective and efficient tool for company management and we have made it a cornerstone of our future corporate strategy.«

Franz Reinisch, CEO Reinisch AG, Karlsruhe



Hygrothermal component and room climate simulation

»Saving energy – and how! In our WUFI® seminars participants learn how moisture-related building damage can be prevented using innovative simulation techniques.«

Dr. Hartwig M. Künzel, Head of the Hygrothermics Department, Fraunhofer Institute for Building Physics IBP in Holzkirchen



Usability Engineer

»The jobs market for usability engineers will continue to grow strongly in future. It is therefore essential to provide sound training in usability.«

Prof. Dr. Matthias Jarke, Director of the Fraunhofer Institute for Applied Information Technology FIT in Sankt Augustin



Surface Engineering and Nanotechnology (SENT)

»This course was a complete success for us through thanks to the impressively large number of application-specific contributions and the excellent presentation of trends in research and development.«

Bernd Hensel, Wilkinson Sword

KNOWLEDGE BALANCE SHEET – THE STRATEGIC MANAGEMENT TOOL OF THE FUTURE

The training for qualification as a knowledge balance sheet moderator that is offered by the Fraunhofer Institute for Production Systems and Design Technology IPK in cooperation with the Knowledge Balance Sheet Study Group is the first comprehensive training course to impart a standard, recognized approach for the systematic control and communication of soft success factors. Focal points of the three-stage seminar series include the Knowledge Balance Sheet – Made in Germany method and various case studies.

Available in English

REALISTIC CALCULATION OF COUPLED HEAT AND MOISTURE TRANSPORT IN COMPONENTS

The WUFI® simulation method (for calculating transient heat and moisture) developed at the Fraunhofer Institute for Building Physics IBP and validated using data derived from outdoor and laboratory tests allows realistic calculation of the transient hygrothermal behaviour of multi-layer building components exposed to natural climate conditions. WUFI® conforms to international standards and is used worldwide. Fraunhofer IBP offers two-day seminars: a basic seminar for WUFI® beginners and a seminar with advanced content for experts.

Available in English

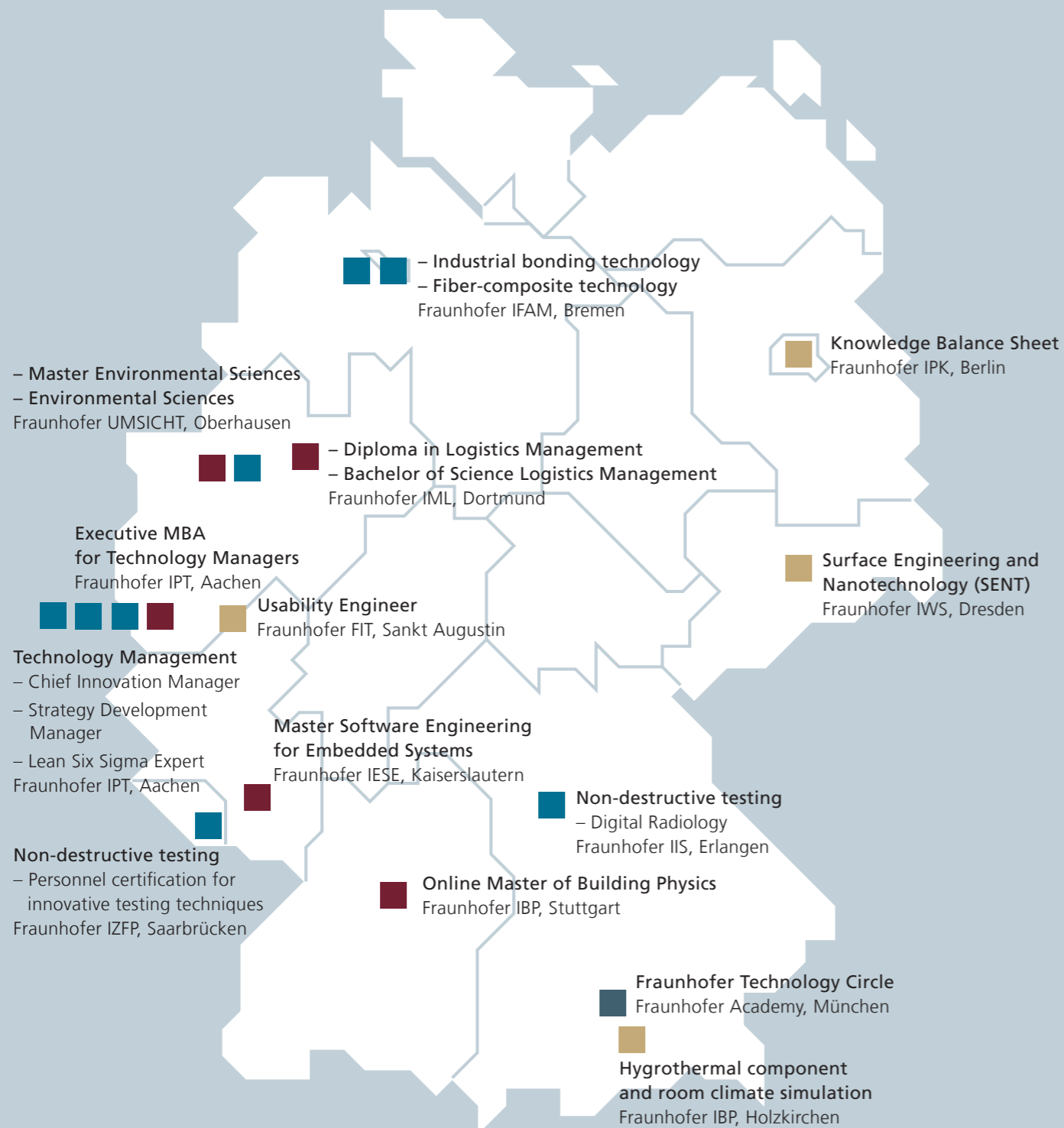
SOLUTION-ORIENTED PRACTICAL KNOWLEDGE FROM FIRST HAND

The expectations of software users have changed in recent years – away from complex technology and towards easy usability. For many companies user-friendliness has therefore evolved as an area of great future potential which generates strong demand for information and training. For this reason the Fraunhofer Institute for Applied Information Technology FIT in Sankt Augustin offers the Usability Engineer Seminar.

THIN-FILM TECHNOLOGY – FUTURE TECHNOLOGY WITH POTENTIAL

Thin films enable established products to be improved and new products to be developed. The two-day SENT training courses offered by the Fraunhofer Institute for Material and Beam Technology IWS in Dresden and Dresden International University (DIU) are geared to the requirements of industrial coating practice, provide a systematic overview of the entire sector and impart essential fundamentals of coating technology.

LOCATIONS WHERE KNOWLEDGE IS CREATED



CONTACT PERSONS AT THE
MEMBER INSTITUTES

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ADDITIONAL INFORMATION

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If you...

- have gained professional experience in a technological environment and are looking for a training course which will open up new career prospects,
- work in the personnel department of a technology-oriented company and are looking for a strong training partner for your specialists and managers,
- would like to have an offer from our training program tailored to the individual requirements of your company,
- are a member of the management board or are responsible for technology decisions and wish to benefit not only from current research expertise but also from the networks of Fraunhofer-Gesellschaft,

... get in touch with our Munich office. We will be pleased to advise you and provide further information on our programs. Extensive information is also available on our website.

www.academy.fraunhofer.de

www.academy.fraunhofer.de



»Our experienced lecturers pass on up-to-date application-oriented Fraunhofer knowledge. What's more, the Fraunhofer Academy offers access to the networks of Fraunhofer-Gesellschaft. Nowadays such networks are more important than ever for finding cooperation partners and customers.«

Dr. Roman Götter, Managing Director of the Fraunhofer Academy

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Fraunhofer Academy – more than just training

Fraunhofer-Gesellschaft is the leading application-oriented research organization in Germany. In its 80 research institutes at more than 40 locations around 15,000 employees work on innovative problem solutions for industrial companies in a wide range of technological sectors – from microsystems to bioengineering. As a result, they gain an ongoing insight into the requirements of modern industrial production. This close cooperation means Fraunhofer is familiar with current technical and social challenges and converts research results quickly and specifically into usable innovations. This leading-edge knowledge from actual practice is utilized by the Fraunhofer Academy. Course participants receive more than just conventional training, they benefit from direct technology transfer.