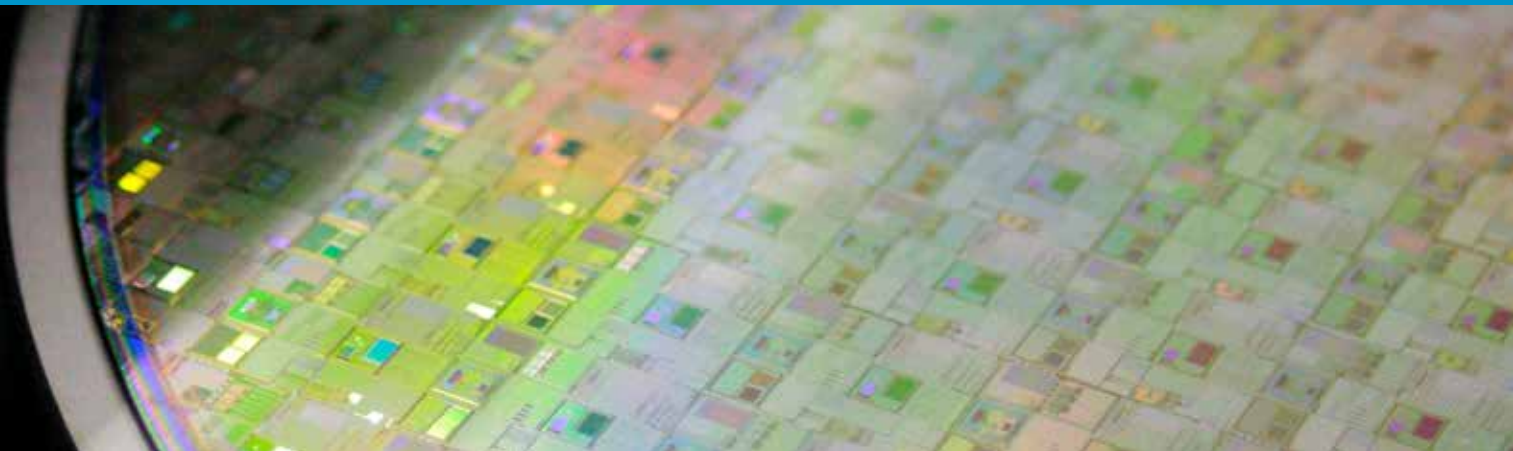


ICT.

Thuringia's Information and Communications Technology: the fast track to success.



The Thuringian information and communications technology industry is highly innovative and productive, featuring not only numerous start-ups, but also publicly traded companies.

Thuringia's ICT sector at a glance

- › Over 1,100 companies
- › 22,800 employees, 7,000 of them work in ICT services
- › 16 research and institutes
- › 2 application centers and 7 business incubators
- › 8 universities and universities of applied sciences
- › 2 universities of cooperative education
- › Outstanding skilled labor pool with technical and scientific training
- › Countless market and technology leaders

Maximize your opportunities in Thuringia's ICT sector!

You can count on the support of the State Development Corporation of Thuringia (LEG Thüringen). We provide fullservice support for any investment project – from site search to project implementation and future expansions. Please contact us.



Key ICT segments

Hardware

- Communications equipment
- Media systems
- Telematics components and systems
- Personal computer production and assembly

ICT services

- User helpline services
- Telecommunications
- Business process outsourcing
- Services for finance, energy supplier + touristic companies

Software

- E-commerce and web technologies
- Business software
- Security software
- E-government applications

Instrumentation and control systems, sensor technology

- Sensors for physical variables and gases
- Image and signal processing, power electronics
- Micro-optics, microsensors
- Microelectronics and laser technology
- Microsystems engineering, nanotechnologies

i ICE hub Erfurt – Germany's high-speed center

As of 2017, Thuringia's capital Erfurt will be the logistics center of high-speed railway transport on the Berlin-Nuremberg line. Thus, travel times to the most important German cities like Berlin, Munich, Frankfurt and Dresden will be reduced to an average of 2 hours.

ICT experts in Thuringia are highly skilled, flexible and motivated.

Special study programs and vocational trainings guarantee the best professionals for information and communications technology.



University education

Thuringia gives young people a head start in ICT education. Eight universities offer degrees in information and communications technologies. Nearly 20 percent of all local students are enrolled in ICT programs.

i **The following study programs are unique in Germany and focused on a particular area:**

- › Media technology (B.Sc./M.Sc.) at Ilmenau University of Technology
- › First chair in Big Data Analytics at the Bauhaus University Weimar
- › Endowed chair in E-Commerce
- › Bachelors Course in E-Commerce at the Jena University of Applied Sciences

Bachelor's and Master's degrees for studying ICT are offered by:

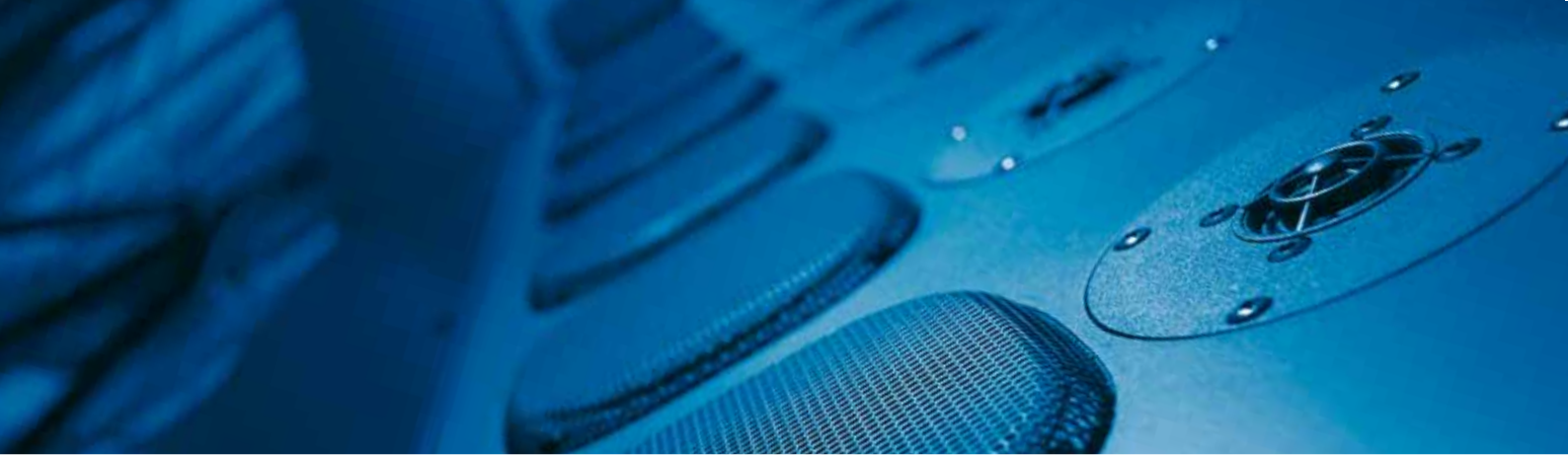
- › Ilmenau University of Technology
- › Friedrich Schiller University Jena
- › University of Applied Sciences Jena
- › University of Erfurt
- › University of Applied Sciences Erfurt
- › Bauhaus University of Weimar
- › University of Applied Sciences Schmalkalden
- › University of Applied Sciences Nordhausen
- › Universities of Cooperative Education in Eisenach

Vocational training, continuing education

Every year, high school graduates receive solid theoretical and on-the-job training in the ICT sector as:

- › Electronics technicians in ICT
- › Industrial electricians
- › Mechatronics technicians
- › Microtechnologists
- › IT specialists
- › Information technology officers
- › IT and telecommunications system electronics technicians
- › Systems informatics technician
- › IT business administration





Successfully closely networked.

Thuringia's universities and application-oriented research institutes form a world-class research and development.

Main research interests

- › Digital media technology
- › Analysis, management and simulation of complex systems
- › Mobile communications
- › Technical and biomedical assistance systems

ICT companies in Thuringia have direct, lowcost access to several application centers, each equipped with state-of-the-art infrastructure for developing new products and technologies.

Embedded systems development is a major field of study in Thuringia. Institutions such as the **IMMS Institute for Micro-electronic and Mechatronic Systems**, for example, conduct advanced research in integrated circuit engineering, systems engineering, mechatronic drive systems, microsensors or microsystems. www.imms.de

The Fraunhofer Institute for Digital Media Technology IDMT develops key technologies for the age of digital media. With its software solutions, the institute is a major partner for the creative industry in Thuringia, Germany and worldwide. Fraunhofer IDMT offers an extensive portfolio of services and technologies in the field of acoustics, multimedia metadata, children's media, bio-inspired computing and in the area of the secure distribution of virtual goods. Further activities include the conception of individualized solutions for integrated learning and knowledge environments and research in the field of audio system technology. www.idmt.fraunhofer.de

Networks

- › Elektronische Mess- und Gerätetechnik Thüringen (ELMUG), an industrial cluster for electronic instrumentation and control systems, www.elmug.de
- › MNT Mikro-Nanotechnologie Thüringen, www.mikronanotechnik.de
- › SpectroNet - innovatice cluster for visual quality control with digital color processing and spectral imaging, www.spectronet.de

i *Stronger together*

TowerByte is a business association of 21 independent software companies based in the JenTower in Jena. Its members specialize in e-commerce. Their activities range from the development of webshop software, mail-order solutions and mobile applications to online marketing and web design. Not only do they sell and operate software solutions, but they also develop and market them. www.towerbyte.de

In Thuringia, companies benefit from close ties with the research community. Partners are nearby, and collaboration is uncomplicated.

Success made in Thuringia.



Sascha Sauer, Managing Director, Ageto AG

“In Thuringia, we have the combined research, business and scientific network that we need to succeed.”

AGETO Innovation GmbH

AGETO is specialized in consulting, implementation and operation of online platforms for e-commerce, ERP and e-government. The Jena-based company offers turnkey solutions for web portals used by authorities and institutions. AGETO is a technology-independent system integrator for the new personal identity card. www.agero.de

EPSa Elektronik & Präzisionsbau Saalfeld GmbH

EPSa is a leading provider of solutions and services in telematics and communications. EPSa offers a wide range of high-performance telematics systems, so logistics and service providers can manage their vehicle fleets better. www.epsa.de

Hörmann Funkwerk Kölleda GmbH

Hörmann Funkwerk is a technology leader in system solutions for traffic and control communications. Ports, waterways, airports, traffic junctions and entire railway lines throughout Europe are controlled by communications systems made in Kölleda. www.hfwk.de

IBM Deutschland CSS GmbH

The company is one of Europe's leading vendor-independent IT service providers. Its Erfurt agents serve customers from all over the world in up to 25 languages, 365 days a year. www.ibm.com

IBYKUS AG

IBYKUS AG counts among the leading IT service providers for customers in the fields of industry and public administration in central Germany. Its core competencies are the development of flexible software solutions as well as the provision of high-performance IT infrastructure and SAP business software solutions. Consulting, hosting and training round off the versatile portfolio. www.ibykus.de

NT.AG

Erfurt-based NT.AG has been providing assistance to its customers in the areas of information and knowledge management for more than 15 years. The firm's portfolio stretches from business-based process and cost analysis all the way to IT implementation in the complementary fields of software development and managed IT and hosting services. www.nt.ag

Selected companies

ADVA Optical Networking SE*,
Meiningen

arvato backoffice services Erfurt GmbH

bluechip Computer AG, *Meuselwitz*

CGI Deutschland Ltd. & Co. KG, *Erfurt*

C.I.P. Gesellschaft für Kommunale

EDV-Lösungen mbH, *Erfurt*

Computacenter Managed Services GmbH, *Erfurt*

D+S communication center Gera GmbH

EasternGraphics GmbH, *Ilmenau*

ePages Software GmbH, *Jena*

EPSa Elektronik & Präzisionsbau

Saalfeld GmbH, *Saalfeld*

Funkwerk AG*, *Kölleda*

Group Business Software AG*,

Eisenach

Hyrican Informationssysteme

Aktiengesellschaft*, *Kindelbrück*

IBM Deutschland CSS GmbH, *Erfurt*

IBYKUS AG, *Erfurt*

Intershop Communications AG*, *Jena*

Kabel Deutschland Kundenbetreuung GmbH*, *Erfurt*

KDW+Service GmbH, *Saalfeld and Unterwellenborn*

mobilcom-debitel GmbH, *Erfurt*

PDV-Systeme GmbH, *Erfurt*

Qundis GmbH, *Erfurt*

SELLBYTEL Group GmbH, *Erfurt*

Swiss Post solutions GmbH,
Waltershausen

Thales Transportation Systems GmbH, *Arnstadt*

X-FAB Semiconductor Foundries AG,
Erfurt

* a publicly quoted company headquartered in Thuringia

Picture credit: Fraunhofer IDMT, IMMS

Your LEG-Service

Our consulting services are free. Simply set an appointment with our experienced investor service team.

State Development Corporation of Thuringia (LEG Thüringen)

Dept. for Investment, International Business and Cluster Promotion
Mainzerhofstr. 12
99084 Erfurt, Germany

Phone +49 361 5603-450
Fax +49 361 5603-328
invest@leg-thueringen.de
www.invest-in-thuringia.de