Thuringia - Your future business location

→ Thuringia in Brief
- Size: 16,200 km²
- Population: 2.3 m (June 2010)
- Capital: Erfurt
- Important cities: Gera, Jena, Weimar
- GDP: Euro 49.9 bn
- Sales (industry): 25.4 bn
- Export (industry): 8 bn
- 10 universities with 54,000 students
- 22 research institutes
- this - thuringia international school - weimar

→ Major Industries
- Engineering Automotive
- Electronics, Optics, Precision Mechanics
- Pharmaceuticals and Medical Technology
- Solar and Environmental Technologies
- Metal and Metal Processing
- Food
- Logistics and production-related services
- Technical helpline and telecommunication services

→ Modern technologies with a long tradition
- 1872 Carl Zeiss and Ernst Abbe produced the first mathematically calculated microscope in Jena
- 1919 Bauhaus School of Design and Architecture founded in Weimar
- 1928 BMW produced their first cars in Eisenach
- 2004 Developer of mp3 standard, Professor Brandenburg, heads Fraunhofer Institute for Digital Media Technology
- 2004 Carl Zeiss Microlmaging develops high resolution microscopy
- 2008 Center for Innovation Competence SEPTOMICS founded in Jena with the research focus on fighting sepsis
- 2009 Solar Valley Mitteldeutschland (Central Germany) opens headquarters in Erfurt
- 2011 Fraunhofer Innovation Cluster “Green Photonics” initiated

Thuringia is the top investment location in Germany, Central and Western Europe according to Site Selection magazine.
Selected R&D Facilities

- Friedrich Schiller University Jena
- Ilmenau University of Technology
- 4 Universities of Applied Sciences
- Fraunhofer Institute for Applied Optics and Precision Engineering
- Fraunhofer Institute for Digital Media Technology
- 3 Max Planck Institutes
- Leibniz Institute for Age Research
- Leibniz Institute for Natural Products
- Research and Infection Biology Institute for Photonic Technologies
- CIS Institute for Microsensors and Photovoltaics Research

Good Reasons for Thuringia

- Central location in Germany and Europe
- All major German cities to be reached in at most 5 hours by truck
- GDP growth of 3% projected for 2011 due to innovative products and technologies
- Highly qualified, flexible and motivated workforce
- About 60% skilled workers and 30% university graduates
- Interesting investment incentives and subsidy programs
- Attractive and varied supply of living space
- Excellent infrastructure of kindergartens, day-care centers and nursery schools
- Fascinating landscapes, rich cultural heritage and high quality of life
- LEG – Thuringia offering comprehensive project consulting and services

LEG - the State Development Corporation of Thuringia

- ... is the one-stop shop for investors
- ... is your gate of entry to partners in Thuringia
- ... and boasts a track record of more than 600 implemented investment projects

We offer comprehensive and confidential services free of charge.

- Advice on suitable industrial sites and properties
- Support in recruiting skilled personnel
- Consultation about available incentives and financing concepts
- Full relocation services for expatriates
- Focused and speedy contacts to industrial and academic partners in Thuringia
- Assistance in technology and innovation transfer within our region

YOUR LEG SERVICE

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

LEG Thüringen - State Development Corporation of Thuringia
Investment Promotion, Technology and International Relations
Mainzerhofstraße 12, 99084 Erfurt

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

INDUSTRY PROFILE

Thuringia – where innovations come naturally

Thuringia is home to famous innovations and discoveries, from the microscope and the X-ray tube to the thermometer and the glass eye. Penicillin, too, was produced here for the first time on an industrial scale in Germany, and scientists from Jena were involved in deciphering human chromosomes 8, 21 and X.

Life sciences in Thuringia at a glance:
- 390 companies
- 15,600 employees
- 5,550 students
- 3 universities
- 2 technology centers and incubators

Core competencies in the Life Sciences sector

<table>
<thead>
<tr>
<th>Medical technology</th>
<th>Biotechnology</th>
<th>Pharmaceuticals</th>
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<tr>
<td>Minimally invasive technology</td>
<td>Functional genome research</td>
<td>Development and production of innovative therapeutic agents</td>
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<td>Medical laser applications</td>
<td>Diagnostics</td>
<td>Development and production of dressing materials</td>
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<td>Medical systems in ophthalmology and endoprosthetics</td>
<td>Functionalization of interfaces</td>
<td>Production of sterile pharmaceuticals</td>
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<td>Implants and biomaterials</td>
<td>Minimized and highly parallelized analysis systems</td>
<td>Production of solid and liquid pharmaceuticals</td>
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<tr>
<td>Medical measurement and sensor technology</td>
<td>Food technology</td>
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42 hospitals
10 research institutions and development service providers

Invest in a prime location for life sciences – Invest in Thuringia!

The State Development Corporation of Thuringia (LEG Thüringen) provides full service support for all investors. Contact us! We would be pleased to assist you.

**WORKFORCE**

→ **Skilled workers**

In Thuringia, training and qualification of skilled workers ensure the competitiveness and innovative capability of local companies. Highly qualified staff guarantees your success!

→ **Academic training**

More than 5,500 students are enrolled in study courses closely tied to life sciences, including:

**Friedrich Schiller University Jena**
- Biology (B.Sc.)
- Biochemistry/Molecular Biology (B.Sc.)
- Bioinformatics (B.Sc./M.Sc.)
- Nutritional Sciences (B.Sc.)
- Microbiology (M.Sc.)
- Molecular Medicine (M.Sc.)
- Chemical Biology (M.Sc.)
- Pharmacy (State examination)
- Medicine (State examination)
- Dentistry (State examination)
- Psychology (B.Sc./M.Sc.)

**University of Applied Sciences Jena**
- Ophthalmic Optics/Optometry (B.Sc.)
- Medical Engineering (B.Eng./M.Eng.)
- Biotechnology (B.Eng.)
- Miniaturized Biotechnology (M.Sc.)
- Pharmaceutical Biotechnology (M.Sc.)
- Optometry/Vision Science (M.Sc.)
- Scientific Instrumentation (M.Sc.)
- Nursing Science/Nursing Administration (M.Sc.)

**Ilmenau University of Technology**
- Biomedical Technology (B.Sc./M.Sc.)
- Miniaturized Biotechnology (M.Sc.)

→ **Training and further education**

Vocational and technical schools in Thuringia offer training for the following professions:

- Biology/Physics/Chemistry laboratory technician
- Medical laboratory assistant
- Mechatronics technician
- Microtechnologist
- Precision optician
- Industrial mechanic and industrial electrician

Moreover, workers in Thuringia benefit from a comprehensive range of further education and training opportunities in the life sciences sector. In addition to the JENAER BILDUNGSZENTRUM (training center of Schott, Carl Zeiss and Jenoptik), the Friedrich Schiller University Jena, the Ilmenau University of Technology and the University of Applied Sciences Jena offer various continuing education programs and science courses. The Institute for Biomedical Engineering and Informatics at the Ilmenau University of Technology, for example, has been the organizer of the annual “International Summer School in Biomedical Engineering” for up and coming biomedical experts since 2005.
One of Thuringia’s most internationally acclaimed locations for research and development can be found at the Beutenberg campus in Jena, where over 2,300 scientists and experts in 10 university- and non-university-based institutes as well as in 50 young biotechnology and medical technology enterprises make discoveries and blast new trails under the motto “…where LIFE SCIENCE meets PHYSICS”.

Jena’s Beutenberg campus is home to:
- Fraunhofer Institute for Applied Optics and Precision Engineering
- Leibniz Institute for Age Research – Fritz Lipmann Institute (FLI)
- Leibniz Institute for Natural Product Research and Infection Biology – Hans Knöll Institute (HKI)
- Max Planck Institute for Biogeochemistry (MPBGC)
- Max Planck Institute for Chemical Ecology (MPCE)
- Institute of Photonic Technology (IPHT)
- Friedrich Schiller University Jena – Institute of Applied Physics
- Friedrich Schiller University Jena – Center for Molecular Biomedicine
- University Clinic Jena of the Friedrich Schiller University – Institute of Virology and Antiviral Therapy
- BioInstrumentation Center
- Technology and Innovation Park Jena

Reap the benefits of an engineering environment that uniquely combines competencies in biology, chemistry, physics, medicine, biotechnology and microsystems technology.

Other famous research outfits calling Thuringia their home are:
- Institute for Bioprocessing and Analytical Measurement Techniques (iba), Heilbad Heiligenstadt
- Research Center for Medical Technology and Microbiology (fzmb), Bad Langensalza

In addition to the above, numerous competence clusters add their expertise to the life sciences sector, including OptoNet (optics industry), medways (medical technology), NEMO-SpectroNet (spectral vision network) and NEMO-VisQuaNet (united vision net) as well as KONTAMIN (foodanalytics).

medways e.V.
medways e.V. is an association of leading German research institutions, manufacturers and universities that aims to develop new ophthalmological diagnostic and therapeutic techniques as well as medical devices for the global market. By connecting biotechnology and equipment design, for example, medways experts help to promote the development of bioinstruments. Medways also advises companies on medical product certification, quality management and pre-launch market analyses, assists firms at trade shows and conferences and holds continuing education seminars and courses. Medways also offers end-to-end management of research projects – from identifying potential projects and applying for funding to coordinating and monitoring activities.
SUCCESSFUL IN THURINGIA

Thuringian companies can look back on a long tradition in the fields of medical technology, biotechnology and pharmacy.

→ Bauerfeind AG

Bauerfeind AG is a premier manufacturer of medical devices such as bandages, orthoses, compression stockings and orthopedic inlays. Material and design award winners many times over, Bauerfeind products make a significant contribution to maintaining and restoring health.

→ Wacker Biotech GmbH

Jena-based Wacker Biotech GmbH has over 20 years of experience in biotechnology. Its cutting-edge site at the Beutenberg campus develops stable, highly efficient processes for the production of biotherapeutics and therapeutic proteins for customers under GMP conditions.

→ Carl Zeiss Meditec AG

Carl Zeiss Meditec AG ranks among the world’s leading providers of system solutions in the field of ophthalmology. For many years now the company has been able to rely on its outstanding technological competence for developing innovative ophthalmology products.

→ AEROPHARM GmbH

AEROPHARM GmbH has more than 35 years of experience in developing and producing pharmaceutical aerosols and liquids. Within the Sandoz Group, AEROPHARM operates as the global development and production center for inhalation products and eye drops.

→ Analytik Jena AG

Another global player is Analytik Jena AG, a system supplier of analytical and bioanalytical instrument solutions. In 2009, Analytik Jena AG acquired a majority stake in CyBio AG, the global market leader for simultaneous pipetting technologies.

→ ALERE Technologies GmbH

ALERE Technologies GmbH (formerly CLONDIAG) designs and produces in-vitro diagnostics. The firm was founded by scientists from the Institute for Physical High Technology and the Hans Knöll Institute in 1998 and has been part of the ALERE Group since 2006. It is a world leader in the Point-of-Care diagnostic market.

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State Development Corporation of Thuringia (LEG Thüringen)
Department for Investment Promotion, Technology and International Relations
Mainzerhofstrasse 12, 99084 Erfurt/Germany
Contact: Dr. Wolf-Peter Pankau
Phone: +49 (0) 361 5603-442
Fax: +49 (0) 361 5603-328
E-Mail: invest@leg-thueringen.de
www.invest-in-thuringia.de

“...The scientific basis and the know-how needed for the industries of the future provide innovative momentum and potential for unique solutions here in Thuringia.”

Klaus Berka, CEO and founder of Analytik Jena AG

OTHER SELECTED COMPANIES

AEROPHARM GmbH, Rudolstadt
Aesculap Suhl GmbH, Suhl
ALERE Technologies GmbH, Jena
Analytik Jena AG, Jena
Asclepion Laser Technologies GmbH, Jena
Bauerfeind AG, Zeulenroda
BINZ Ambulance- und Umwelttechnik GmbH, Ilmenau
biolitec AG, Jena
Carl Zeiss Meditec AG, Jena
Clinico Ophthalmic GmbH, Mhla
CyBio AG, Jena
EPSa Elektronik & Präzisionsbau Saalfeld GmbH, Saalfeld
Geratherm Medical AG, Geschwenda
Gothaplast Verbandpflasterfabrik GmbH, Gotha
HPT Hochwertige Pharmatechnik GmbH & Co. KG, Neuhaus am Rennweg
Jenahexal Pharma GmbH, Jena
Jenapharm GmbH & Co. KG, Jena
Jenoptik AG, Jena
Königsee Implantate GmbH, Allendorf
microfluidic ChipShop GmbH, Jena
NTI - Kahla GmbH Rotary Dental Instruments, Kahla
Otto Bock Health Care GmbH, Königsee
r m w Kabelsysteme GmbH, Crossen a.d.Elster
Schering GmbH & Co. Produktions KG, Weimar
Siemens AG Medical Solutions, Röntgenwerk Rudolstadt, Rudolstadt
Trumpf Medizin Systeme GmbH, Saalfeld
Wacker Biotech GmbH, Jena

Source of photographs:
Carlo Bansini, LEG Thüringen/Barbara Neumann, Bauerfeind AG, Carl Zeiss Meditec AG, CyBio AG, Dyomics GmbH
Attractive residences in Thuringia

When it comes to real estate, the State Development Corporation of Thuringia (LEG) is an expert partner. It rents and sells a wide range of land and buildings.

LEG provides comprehensive advice, performs building evaluations, calculates investment requirements and develops opportunities for properties. The range of properties it offers is broad, and includes inner-city residential, commercial, retail and leisure sites.

For families wishing to build their dream homes, LEG offers properties in around 70 residential areas throughout Thuringia. Buyers receive their plots from LEG commission-free, ready for building, and without being bound to a particular property developer.

Market strength through fine minds

With “Kinderbetreuung 24” for example, LEG has set up a project in which it is developing and testing flexible new forms of childcare.

The goals of the project are to support parents in balancing their working and family lives and to increase employers’ awareness of the needs of their employees. The project aims to improve existing childcare infrastructures in the city of Erfurt. This includes intensifying regionally available offers and networks, while incorporating inter-regional experience.

The quickest way to enter the LEG portal: simply scan the code and find out more!
As an economic development company, the State Development Corporation of Thuringia (LEG) promotes the region of Thuringia, with the aim of attracting both domestic and international investors.

Companies planning to locate here can expect a comprehensive, free service package from LEG: together with the investor, it selects the most suitable site from all of the industrial and commercial spaces available in Thuringia, sets up contacts to regional authorities, deals with all the official agencies, and arranges cooperation partnerships. It also provides individual advice on financing and funding opportunities.

LEG also manages and markets more than 50 former military areas on behalf of the State of Thuringia. So far, 22 sites have been selected for inclusion in conversion projects. The development activities at 16 of these sites have already been completed. Former military buildings have now been made into attractive apartments, while military land has been developed into modern industrial and commercial parks. Those parts of the former military sites that were unsuitable for re-use have been re-landscaped and made available as compensation areas, for example, for motorway construction.

LEG supports technology clusters, identifies technological potential, and promotes the industrial realization of innovations. It assists in bringing together the relevant players, identifies international projects, provides impulses for interdisciplinary cooperation, and helps to reinforce Thuringia as a high-tech center. It also operates the Business and Technology Database (UTD), one of the largest databases of companies, educational institutes and research establishments in Thuringia.

Full service for investors

- location and funding advice
- handling of official agencies
- provision of regional and economic data
- support in recruiting and training qualified personnel
- project management and technological expertise.

LEG plans, manages and coordinates regional and urban development processes for individual sites as well as for quarters, districts and entire regions in Thuringia. Implementation strategies are derived from regional development concepts, and any resulting actions that are necessary are taken care of.

As a regional manager, the State Development Corporation coordinates a variety of regional interests and assists in acquiring the necessary funding for implementing projects. As an urban developer, LEG devises urban land-use and implementation plans and manages both urban development competitions and the progress of renovation and development measures. It also pays particular attention to the redevelopment of brownfield areas. The broadband competence center set up at the State Development Corporation is working to achieve basic coverage with fast Internet access over as much of the region as possible. The Coordinating Office for Transnational and Inter-Regional Activities (TNA) plays an important role, promoting cooperation between businesses and institutions in Thuringia and partners from regions in the EU and EFTA states.