COMPANIES FROM SAXONY – A HIGH TECH LOCATION IN GERMANY

NANO TECH TOKYO
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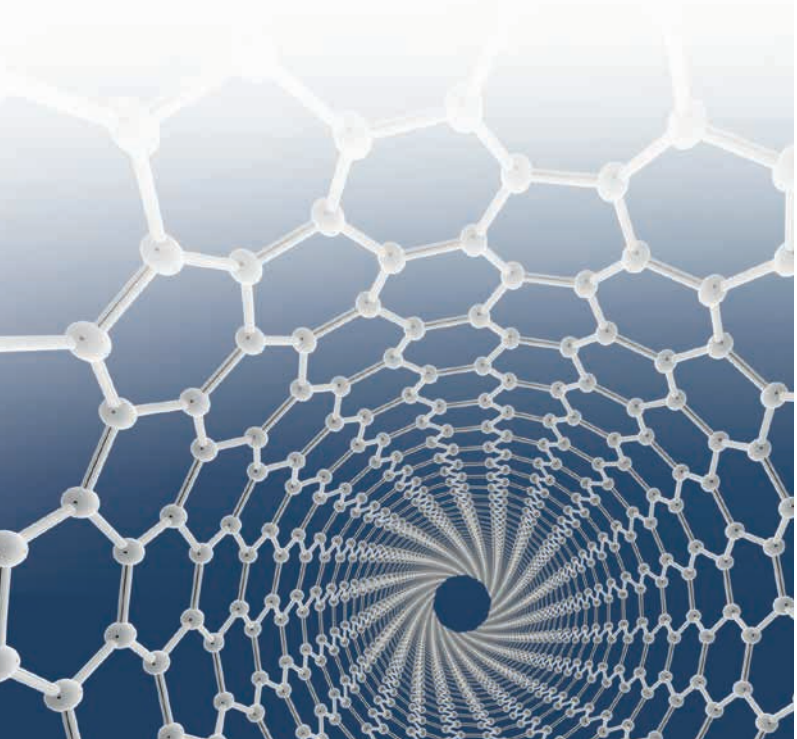

NANOTECHNOLOGY IN SAXONY

With 200 companies specialized in nanotechnology Saxony belongs to Germany's top 5 locations. Saxony is characterized by a tight network of producing industries and suppliers that give impetus to the development and economic use of nanotechnologies and open up new channels. Thus, nanotechnology experts benefit from close exchange with the microelectronics / ICT (»Silicon Saxony«), mechanical engineering and automobile industries, which are particularly strong in Saxony.

When it comes to nanoanalysis, nanoelectronics, functional nanolayers, ultra-thin layers and materials in particular, Saxony's companies and research institutes are at the top of the European field. Some of Europe's leading research institutions for nanoelectronics can be found in Saxony – e.g. the Nanoelectronic Materials Laboratory gGmbH (NaMLab) and the Dresden Center for Nanoanalysis (DCN) at Dresden University of Technology or the Center Nanoelectronic Technologies CNT at the Fraunhofer Institute IPMS Dresden.

Saxony's nanotech companies and research institutions have largely organized themselves in various active networks. An excellent example is the the "Functional integration for micro- and Nanoelectronics" performance center that unites four Fraunhofer Institutes as well as researchers from the Dresden and Chemnitz Universities of Technology.

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Fraunhofer Institute for Ceramic Technologies and Systems IKTS

The Fraunhofer IKTS conducts applied research on high-performance ceramics. The institute's three sites in Dresden and Hermsdorf (Thuringia) collectively represent Europe's largest R&D institute dedicated to the study of ceramics.

As R&D service provider, the Fraunhofer IKTS develops modern ceramic high-performance materials, customized industrial manufacturing processes and creates prototype components and systems in complete production lines from laboratory scale to pilot plant scale. Furthermore, the institute has expertise in diagnostics and testing of materials and processes. Test procedures in the fields of acoustics, electromagnetics, optics, microscopy and laser technology contribute substantially to the quality assurance of products and plants.

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Fraunhofer Institute for Material and Beam Technology IWS

The Fraunhofer IWS portfolio includes two overlapping working areas: the laser and the surface technology. The R&D work is based on a solid materials science background and extensive technical capabilities for materials and component characterization.

Materials are a central key element of today's manufacturing technology. On the other hand, the field of nanotechnology is increasingly gaining importance in both materials development and manufacturing. The Fraunhofer IWS offer one-stop-solutions usually derived from novel concepts, which are based on the holistic analysis of manufacturing systems, processes, materials and component performance. The IWS continuously expands its facilities, which guarantees an efficient project execution utilizing state-of-the-art and high-tech equipment.

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Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP

Fraunhofer FEP

Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology FEP works on innovative solutions in the fields of vacuum coating, surface treatment as well as organic semiconductors. The core competences electron beam technology, sputtering, plasma-activated deposition and high-rate PECVD as well as technologies for the organic electronics and IC/system design provide a basis for these activities.

Thus, Fraunhofer FEP offers a wide range of possibilities for research, development and pilot production, especially for the processing, sterilization, structuring and refining of surfaces as well as OLED microdisplays, organic and inorganic sensors, optical filters and flexible OLED lighting.

Our aim is to seize the innovation potential of the electron beam, plasma technology and organic electronics for new production processes and devices and to make it available for our customers.

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Fraunhofer Institute for Reliability and Microintegration IZM

Fraunhofer IZM

Fraunhofer IZM specializes in industry-oriented applied research. It develops assembly and interconnection technology, also known as electronic packaging. Our technologies connect the individual components, protect components and devices from vibration and moisture, and reliably dissipate heat. Fraunhofer IZM thus ensures that electronic devices continue to function reliably in even the harshest conditions. Modern packaging technologies make developing smaller and smaller products possible. We process ICs thinner than a sheet of paper. The institute, founded in 1993, has a staff of more than 300 and disposes of a clean room area of nearly 2000 sqm. Almost 80 percent of our turnover in 2015 was earned through contract research.

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Life Science Inkubator Sachsen GmbH & Co. KG

SmartNanotubes is a start-up project at Life Science Inkubator Sachsen.

We produce tailored single-walled carbon nanotubes, in particular highly pure semiconducting carbon nanotubes (s-CNTs). We also develop and produce s-CNT based chips for application in biosensors, gas sensors, nanoelectronics and photonics. We also test our s-CNTs in first prototype devices of our partners.

Our s-CNT based gas sensors are highly efficient: they work and room temperature, consume less than 1 µW power and have low detection limit (e.g., 100 ppb for NH3 gas). Such sensors are suitable for Internet-of-Things, environment monitoring or point-of-care diagnostic applications.

Our team is looking for partners in Japan for joint development and validation of s-CNT based end-applications like sensors, computer chips and other.

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Loser Chemie GmbH

The need to address end-of-life issues early in the design stage of product development is also clearly illustrated by the history of the electronics industry. We cannot afford to wait for the inevitable tidal wave of WEEE waste (including photovoltaic scrap) before we begin to address this problem and we have to handle enough scrap for now. Without economic and ecologic valuable recycling programs, defective and decommissioned (also EOL) solar PV equipment and other high tech products will enter the waste stream. It will end up in landfills (where toxic compounds can leach into groundwater) or incinerators (where burning can release toxic compounds into the air). Learn more about our new and innovative technologies for the recycling of nano silver and thin film layers from semiconductor materials.
The Loser Holding Group has set itself the goal of continuing and expanding the recycling activities of the SolarWorld, that´s why we can produce flat multi-crystalline silicon targets.

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OES Organic Electronics Saxony Management GmbH

Organic Electronics Saxony (OES) is Europe's leading Cluster for Organic, Printed and Flexible Electronics.

Global leading companies, hidden champions, promising start-ups as well as specialized Research Technology Centers are combined in the competence network and cover the whole value chain:

- fundamental and applied research
- material tool suppliers
- device and product development

We are in touch with industry of medical technology and automotive.

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WOLFRAM Design/Engineering

WOLFRAM Design/Engineering is a full service design and engineering agency from Germany. We provide services with regard to the entire product development process – from the initial idea to a product ready for mass production. Working together with our customers, WOLFRAM Design/Engineering assesses the potential and unique selling proposition and defines the innovation strategy.

Our team of experienced engineers and designers, covering all stages from innovation research, industrial design, and CAD mechanical engineering. WOLFRAM Design/Engineering offers the opportunity to experience innovative, future lighting through a series of luxury OLED luminaires. We create innovative light sculptures using state-of-the-art OLED technology and precious materials which have never been seen before in light design.

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Saxony Economic Development Corporation

WIRTSCHAFTSFÖRDERUNG SACHSEN
Saxony Economic Development Corporation

The Saxony Economic Development Corporation promotes Saxony as a business location and advises potential investors on relocation projects. Furthermore, the WFS supports Saxony´s companies in their export efforts and initiates cooperation with partners outside Saxony.

Our services include:

- the latest data on Saxony's economy and business environment,
- customized business site location services,
- procurement of contacts with regional decision makers,
- information on opportunities for financial support and subsidy programs,
- access to branch networks in Saxony,
- assistance in opening up new markets, and
- in initiating cooperative partnerships.

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