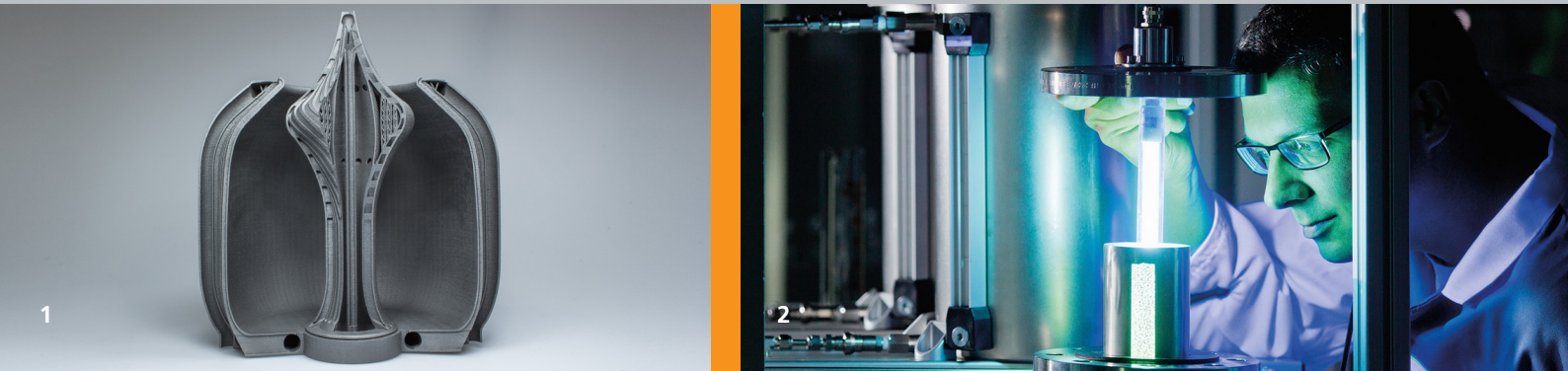


FRAUNHOFER IN DRESDEN



1 Rocket propulsion with aerospire nozzle made of high-temperature resistant alloys for future space applications. Manufactured using Selective Laser Melting SLM, the engine features complex, conventionally non-producible cooling structures capable of withstanding temperatures in excess of 2000 Kelvin (© Fraunhofer IWS).

2 Ceramic photocatalysis module for waste water purification (© Fraunhofer IKTS).

FRAUNHOFER IN DRESDEN

Research location Dresden

Today Dresden is one of the most important science centers in Germany. In addition to the extraordinarily high density of research facilities, the city is characterized by a close integration of research and industry, which results in new top performances and innovative developments, that set worldwide impulses.

Largest Fraunhofer location

Fraunhofer scientists have been conducting research in numerous fields of technology in Dresden since 1992. Today, the city with its ten Fraunhofer institutes, institutions and branches is the largest Fraunhofer location in Germany. In 2018, almost **2260 employees** together generated **sales of more than 240 million euros**.

A hub for innovation

Fraunhofer in Dresden has a strong regional and international network and is involved in various alliances.

The institutes are connected to the Technical University of Dresden and the HTW Dresden through the professorships of their institute directors. Basic research is mainly carried out at the TU Dresden, applied research is carried out at Fraunhofer. This results in a very powerful scientific-technical network in Dresden. DRESDEN-concept – Dresden Research and Education Synergies for the Development of Excellence and Novelty is an expression of this special networking. DRESDEN-concept is an association of the TU Dresden with strong partners from science and culture with the aim of making the excellence of Dresden research visible.

Fraunhofer in Dresden

Contact

Dipl.-Chem. Katrin Schwarz

Fraunhofer IKTS
Winterbergstr. 28, 01277 Dresden
Phone +49 351 2553-7674
katrin.schwarz@ikts.fraunhofer.de

www.dresden.fraunhofer.de



3



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Thanks to close cooperation with large- and medium-sized companies and young, technology-oriented start-ups, Fraunhofer in Dresden has developed into an important hub in the innovation landscape of Germany and Europe. The Fraunhofer institutes, institutions and branches provide the companies with the necessary know-how to assert themselves in the markets of the future.

Total budget and employees of Fraunhofer in Dresden

Institutes	Total budget* (in Mio. €)	Employees**
FEP	26.8	225
IKTS	60.0	513
IPMS	42.6	392
IVI	13.5	184
IWS	33.6	448
IFAM	7.8	89
IIS/EAS	11.9	143
IWU	46.6 ¹	196
IVV	3.8	60
IZM-ASSID	7.7	39
Total	240.0²	2256

* Total budget 2018

** Number of employees on 31.12.2018

¹ IWU in total (Chemnitz, Dresden, Zittau)

² Fraunhofer-DD incl. IWU Chemnitz, Zittau

(Source: Fraunhofer-Gesellschaft)

Fraunhofer in Dresden

- FEP Fraunhofer Institute for Organic Electronics, Electron Beam and Plasma Technology
- IKTS Fraunhofer Institute for Ceramic Technologies and Systems
- IPMS Fraunhofer Institute for Photonic Microsystems
- IVI Fraunhofer Institute for Transportation and Infrastructure Systems
- IWS Fraunhofer Institute for Material and Beam Technology
- IFAM Fraunhofer Institute for Manufacturing Technology and Advanced Materials, Dresden branch
- IIS/EAS Fraunhofer Institute for Integrated Circuits, Division Engineering of Adaptive Systems
- IWU Fraunhofer Institute for Machine Tools and Forming Technology Dresden branch
- IVV Fraunhofer Institute for Process Engineering and Packaging, Dresden
- IZM-ASSID Fraunhofer Institute for Reliability ASSID and Microintegration, All Silicon System Integration Dresden

Core competencies

The Fraunhofer scientists in Dresden conduct research in numerous technological fields and make their results available to industry in the form of patents, licenses, training courses and, above all, contract research projects.

- Additive manufacturing technologies
- Data analysis
- Electron beam and plasma technology
- Energy and storage technologies
- IC and electronic design systems
- Vehicle and drive technology
- Intelligent transport systems
- Ceramic technologies and systems
- Medical technology
- Nanoelectronic technologies
- Organic electronics
- Photonic microsystems
- Powder metallurgy and composites
- Resource-efficient production and lightweight construction
- Environmental technologies
- Packaging technology
- Material technology
- Non-destructive testing methods
- Civil security
- Laser processes
- Battery technology
- Coating and surface technology

3 Sterilization using low-energy electrons for medical applications
(© Fraunhofer FEP).

4 Smart facade
(© Fraunhofer IWU).