



We have to implement fast. We have to implement precisely. [Fraunhofer USA] has the brains and the connections to do the research and development, and we need that... «

Knudt Flor,
former President & CEO
BMW Manufacturing

FRAUNHOFER USA OVERVIEW

Fraunhofer USA, Inc., is a nonprofit Research & Development organization working with industry, universities, and state and federal governments on contract research projects. Our organization specializes in high-tech problem solving by leveraging world-class scientific and engineering expertise to address technical challenges. We design and develop prototypes, establish and validate manufacturing processes, and bridge the gap between basic research and market-driven innovations. This cutting-edge work moves new developments along the technology readiness scale.

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Fraunhofer USA

Turning Cutting Edge
Research into YOUR Reality



Fraunhofer USA offers custom solutions for your R&D needs

CAPABILITIES

Materials and Surfaces

- Carbon thin film coatings and surface treatment
- State-of-the-art diamond materials and application research facility
- Artificial intelligence applications to understand and predict materials behavior
- Electrode development for sensing, environmental and harsh environment use

Industry 4.0 Solutions

- Advanced laser processing for welding, cladding, cutting and additive manufacturing
- Custom automated manufacturing and lab operations
- Supply chain traceability, transparency, and risk assessment
- AI for manufacturing systems, process improvement, and quality control

Systems and Software

- Powerful software testing and verification strategies and tools
- State-of-the-art measurement and code analysis methods
- Application and testing of artificial intelligence based systems
- Innovative rapid prototyping and modeling
- Machine learning solutions

Partners

Our North American and global partners allow Fraunhofer USA to identify strategic research areas and support economic development.

- Michigan State University
- Boston University
- University of Maryland
- South Carolina Fraunhofer USA Alliance
- Fraunhofer-Gesellschaft

Energy Technologies

- Field test energy-saving building and distributed energy technologies to accelerate the transition to a sustainable future
- Building Technologies: Development, prototyping, demonstration and field testing
- Distributed Energy Resource Integration: Solar PV, energy storage, flexible buildings, e-mobility

Life Sciences

- Biomedical systems and device automation
- Tissue engineering
- Personalized medicine
- Cell cultures for secondary metabolites
- Electrode development for brain research

OUTREACH

Alliance Program

Through the Alliance Program, Fraunhofer USA partners with state economic development agencies to deliver cutting-edge solutions and innovations to state industry by leveraging Fraunhofer's global network of research scientists and industry ready technologies.

TechBridge

The TechBridge program accelerates innovation by providing startups and industry partners with Fraunhofer USA's technical validation and demonstration capabilities. Through laboratory testing, prototyping, and expert evaluation, we help de-risk promising technologies for commercial deployment. Our current program, the Carbon to Value Initiative, demonstrates this approach's success with 26 supported startups raising over \$410 million in funding.

LET'S WORK TOGETHER

Delivering innovative technology solutions and rapid lab-to-market tech transfer, Fraunhofer USA provides customers with access to world-class scientific research and unique engineering resources to identify and develop the best technology solution matching your custom needs.

Our highly trained and professional engineering teams thrive on the opportunity to combine top-notch research with real-world applications. Research and development acts as a cornerstone of success and Fraunhofer USA is an excellent alternative to in-house R&D solutions, which can be cost-prohibitive.

Did You Know?

More than \$880 billion is spent on research and development annually in the United States

Source: National Science Foundation