Hypersonic Technologies

U.S. Air Force Photo

Expanding the applicability of hypersonics through a variety of technologies

Concurrent Technologies Corporation (CTC) offers a comprehensive suite of services to help solve a wide variety of pressing challenges to real-world hypersonic applications.

Hypersonic weapons, once developed, would fly faster than 3,800 mph and be extremely difficult to defend against. Advances in hypersonic technologies have significant implications for national security, as well as for transportation and space systems. Research and development of offensive and defensive capabilities in hypersonics is and will remain critically important.*

CTC is recognized as one of the world's premier nonprofit applied scientific research and development organizations for the creation and implementation of advanced manufacturing technologies, cybersecurity solutions, and more. The skills and processes developed at CTC are leveraged by a long list of U.S. government and industry partners.

What We Can Do For You

- Additive Manufacturing
- Artificial Intelligence and Machine Learning
- Custom Fabrication Solutions
- Cybersecurity for Manufacturing
- Data Management and Analysis
- Elevated Temperature Testing
- First of a Kind Prototyping
- Mechanical Testing and Materials Characterization
- Metrology and Inspection
- Technology-Based Training Solutions
- Visualization and Extended Reality
- Welding and Joining

*U.S. Government Accountability Office (GAO)

CTC Concurrent Technologies Corporation

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Featured Services and Solutions

Additive Manufacturing

CTC offers a variety of Additive Manufacturing (or 3D Printing) processes to provide our clients both complex part manufacturing and the ability to repair worn or damaged high-cost components. CTC's experts offer the Metal Additive Manufacturing process that can get you results in days.

Custom Fabrication

From concept to production—CTC delivers innovative solutions to serve our clients' wide-ranging fabrication needs. Our craftspeople take great pride in their work—producing quality parts at a competitive price with timely deliveries.

Mechanical Testing and Materials Characterization

Our team has operated a full service mechanical testing and materials characterization laboratory for over 30 years. We have performed quick turnaround mechanical testing services for a multitude of government and commercial clients, from small-scale testing to overall test programs for material qualifications.

CTC has made significant investments in large-scale, state-of-the-art laboratories and demonstration facilities to benefit clients and industry partners in the hypersonics arena. With 16,000 square feet of lab space and 130,000 square feet of high bay work/demonstration space, we can accommodate any size project.

For more information contact:
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