Designing and building complex systems for the future

www.dynetics.com
We are a company of commitment, capability, curiosity, and character. Excellence and high ethical standards mean everything to us at Dynetics.

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More than just a company, we are a partner.
We seek to strengthen and enrich the communities in which we live.
At Dynetics, our history of technical excellence is built on a foundation of innovation and integrity. Our mission is to deliver superior quality, high-technology products and services ethically, responsively, and cost-effectively—a mission we take seriously. All Dynetics employees make a commitment to continuing this legacy, united by the drive to provide cutting-edge capabilities for our customers.
Dynetics Strategic Business Areas

Automotive
- Automotive electrical diagnostic systems and engineering diagnostic tools
- Vehicle data loggers
- R&D, engineering, validation, manufacturing, and service support for commercial vehicles

Intelligence
- Scientific and technical intelligence analysis
- Electronic warfare
- Intelligence, surveillance, and reconnaissance systems

Cyber & IT Solutions
- Mission focused tools and services
- Cyber Risk Management Solutions
- Managed IT Solutions

GroundAware® Surveillance
- Critical infrastructure security
- Low cost long- & short-range detection with real-time classification of targets
- Integration with existing systems
- Lifecycle & support warranty

Radars and Sensors
- Advanced radar signal processing
- Foreign weapon systems analysis
- Intelligence, surveillance, & reconnaissance
- Reconnaissance, surveillance, & target acquisition (RSTA)

Space Solutions
- Propulsion systems
- Mechanical and propulsion testing
- Small satellite development
- System integration & assembly
- Mission design & vehicle sizing
- Vehicle structure design and manufacturing

Strike Systems
- Warhead design & development
- Collaborative autonomy
- Rapid prototyping
- Enhanced end-to-end system development, including SGM and Gremlins

Unmanned Systems
- Hardware, software, and payload integration
- Flight test operations & support
- Counter-UAS

Weapons Technology
- Warhead fuzing design, analysis and testing
- Avionics solutions
- Test and training solutions

Hypersonics
- Glide vehicle prototyping
- Complex, classified manufacturing and assembly
- LRHW ground platform development

Directed Energy
- Design and integration of laser weapon systems
- Advanced radar development
- Prime power generation

Advanced Manufacturing
- Electrical manufacturing
- Specialty machined parts and manufacturing
Dynetics offers experience in the design, production, support, and repair of commercial automotive electrical diagnostic systems, engineering diagnostic tools, and vehicle data loggers. Our engineers have a deep understanding of how vehicles are engineered, enabling us to design and deliver several accurate, reliable systems. Today, we are the plant floor configuration and test system partner of choice at assembly plants, engineering technical centers, and proving grounds around the world. We are located on six continents, in 14 nations, and in more than 60 factories.
Dynetics provides unmatched full-spectrum cyber and IT solutions to support the offensive and defensive efforts of our defense, intelligence, and commercial customers. We have built a reputation as a leader and trusted advisor in cyber services from enterprise information technology networks to modern weapons systems. Our solutions include mission-focused tools and services, cyber risk management solutions, and managed information technology services.

- Mission Focused Tools & Services
- Cyber Risk Management Solutions
- Managed IT Solutions

Offering **end-to-end** cyber capabilities

01. **Strategize** to prioritize risks and maximize your ROI.
02. **Assess** to enhance your approach.
03. **Implement** tailored solutions to meet your needs.
04. **Monitor** to detect and respond to malicious activity.
05. **Test** to ensure resilience.
Protecting critical infrastructure and perimeter security

GroundAware® is a family of advanced, affordable, and reconfigurable surveillance sensors that makes it easier and more affordable than ever monitor extensive perimeters and sensitive areas. Built on next-generation radar technology, the digital beaming pulse sensors detect intrusions in real time and instantaneously generate and share actionable data on potential threats. There are two surveillance systems for both long- and short-range detection. GroundAware is fully configurable, easy to integrate with other systems, and can be used in different locations.

Overall specifications:
- Architecture: simultaneous multiple beams
- Range resolution: 10 m
- Minimum detectable velocity: 0.5 m/second
- Frequency: Software defined within S-band
- Selectable frequency sub-bands: 10
- Web-based, iOS/Android-compatible
- 4 Hz software-defined update rate
- Email/SMS text alerting
- User-defined alarm and ignore zones
- Wired or wireless connectivity
- Remotely administrable

GroundAware®

GA3360
360° field of view
5 km range
Covers 750+ acres

GA1360
360° field of view
1 km range
Covers 750+ acres

GA9000 Series
120° field of view
15 km range
Covers 2,000+ acres

GA4000 Series
120° field of view
4 km range
Covers 2,000+ acres
Dynetics’ experience supporting the Intelligence Community centers around expert assessments of foreign technology and foreign weapon systems to characterize and quantify threat system capabilities, vulnerabilities, and limitations. We analyze weapons systems intelligence through three distinct areas: scientific and technical intelligence; electronic warfare; and intelligence, surveillance, and reconnaissance systems. Not only are we able to develop finished intelligence about a wide-ranging class of foreign systems, but we have developed and deployed solutions that are capable of preventing, disrupting and defeating enemy attacks.

Exposing complex threats and protecting our national security
From concept development to system integration, to design and testing of radar and sensor components, we have made this core to our business since the company’s inception. We support radars and sensors worldwide, including land- and sea-based radars and sensors as well as satellites. In addition, Dynetics supports extensive efforts in the analysis and development of seekers and signatures.

Providing **advanced** solutions to **enhance** the **efficiency** of radar systems and subsystems
Space Solutions

Our engineers provide flexible flight hardware development from low-cost prototypes through complete human-rated solutions. Our expertise in design, analysis, systems engineering, integration, manufacturing, and test provides our customers with full-spectrum support to meet our customer’s ever-increasing demands. We have proven history as a prime contractor for NASA, Department of Defense, and commercial customers—to include the prime contractor for NASA’s Human Landing System and Space Launch System rocket Universal Stage Adapter. To expand our footprint, we built an aerospace structures complex in Decatur, Alabama.

Powering innovative, responsive, and affordable solutions from subcomponents to full system
Dynetics is leading the way in developing advanced weapons to support our warfighters and defend the nation. We are leveraging our decades-worth of weapon systems engineering and manufacturing capabilities to develop weapon systems that are essential, effective, flexible, and low-cost. Our products and capabilities provide end-to-end support for military systems. Our Small Glide Munition and Gremlins architecture are enhanced capabilities that will be benefit agencies for years to come.

Designing and building **next-generation** strike systems for **today’s** warfighter
This weapon modernization effort is the U.S. Army’s number one priority under the Army Hypersonic Project Office, part of the Army Rapid Capabilities and Critical Technologies Office (RCCTO). We are building weapon systems that can travel at Mach 5 or higher. These weapons will be delivering residual combat capability to Soldiers by 2023. With a history of providing rapid, novel, and creative solutions, Dynetics is a trusted partner in weapons systems research and development. We understand the hypersonic threat.

Modernizing the **National Defense Strategy** to win the **great power** competition
Today’s warfighter faces unique challenges from the proliferation of hostile unmanned aerial systems (UAS) and rockets, artillery, and mortars (RAM). Our directed energy solutions ensure mission success in the most challenging applications, from remote test ranges to the field of battle. Our highly reliable subsystems are built to withstand the rugged operation conditions and ensure the safety of our warfighters and control (GNC), and sensor selection. Dynetics’ directed energy weapon systems provide a safe and simple system to address these high-volume, low-cost threats.

Innovative systems for an evolving threat
Advanced Manufacturing

Our team of experts collaborates throughout the design, prototyping, and manufacturing process to create manufactural designs, decreasing costs and saving time. Our collocated facilities provide us with agility to rapidly tackle tough technical challenges, from concept analysis and development through testing and production—in one location.

Collaborating through **design, prototyping, and manufacturing.**

**Electronics Manufacturing**
We produce complex Printed Circuit Board Assemblies (PCBAs) utilizing high-density Surface Mount Technology (SMT). These complex PCBAs are utilized in a wide variety of technically advanced electronic product families, such as avionics, radar, and defense systems.
From Surface Mount Technology, enabling quick production of new circuit board and component technologies, to advanced manufacturing from micron-level to several-inch thick submarine hulls, our team is capable of meeting customer requirements, large or small. At Dynetics, we are prepared to solve the most complex problems.

**Strategic focus on scalability and flexibility.**

**Electron Beam Welding**

Dynetics is home to the largest electron beam welding system in the western hemisphere, up to the secret level. These systems are capable of welding high-strength, high-temperature alloys up to several inches thick in a single pass. The Dynetics electron-beam welding approach cuts 50% off the traditional build schedule.
At Dynetics, we have combined our strong foundation in unmanned technologies with a special focus on autonomous systems, acting as a force multiplier to enable our customers to extend their human capabilities to better accomplish their missions. Our team brings together the expertise, equipment, and processes needed to provide full-spectrum engineering support, high-tech payload integration and testing, real-time data services, and complex flight operations. We are also on the forefront of counter-UAS security.

**Autonomous innovation to extend human capabilities and accomplish the mission**
Dynetics has been a trusted partner to Department of Defense agencies and contractors in undertaking many of the most challenging scientific and engineering problems. This experience has established Dynetics as a leader in weapons systems research and development. Our comprehensive services include warhead development, avionics solutions, test and training solutions, electrical manufacturing, and specialty machined parts and manufacturing.

Developing technologies to enable next-generation weapons systems
Our People

Employee Education

- Bachelor’s 49%
- Master’s 28%
- Other 16%
- Associate 4%
- Ph.D. 3%

Employee Experience (Years)

- 0 to 5 years (25%)
- 6 to 10 years (13%)
- 11 to 15 years (14%)
- 16 to 25 years (21%)
- 26+ years (27%)

Employee Disciplines

- Electrical Engineering 25%
- Aerospace Engineering 7%
- Mechanical Engineering 8%
- Other Engineering 3%
- Other Disciplines 12%
- Business & Administration 11%
- Science/Math 4%
- Technicians & Machinists 11%
- Computer Professionals 19%

Fast Facts

- Founded in 1974 and headquartered in Huntsville, AL
- 3,000+ employees
- Locations in Alabama, California, Colorado, Florida, Michigan, Mississippi, New Mexico, Ohio, Tennessee, Texas, and Virginia.

Leadership

- David King, Group President
- Steve Cook, Deputy Group President
- Mike Moody, Chief Operations Officer
- Ronnie Chronister, Senior Vice President, Business Operations
- Tim Barton, Chief Technical Officer

Data as of Jul 2018
At Dynetics, our positive, professional, and collaborative culture is something that we take great pride in every day. As a company full of bright intellectual minds, we value the power of education. We enjoy working alongside our coworkers, and a spirit of community comes natural for us. The uniting factor in our workspace is the drive to innovate cutting-edge capabilities for our customers, ultimately taking them to new heights.

As individuals, we also contribute to the well-being of our communities. Our employees hold leadership positions in many local, national and international professional organizations. We are leaders in our churches, active volunteers in local schools, and essential contributors to the organizations that enrich our communities. We don’t wait for others to serve... we do.