General Dynamics Ordnance and Tactical Systems offers a variety of services and hardware that advances the state of the art in warhead technology. From world-class modeling and simulation and advanced designs to development, qualification and production, we offer concept to hardware capability to enhance the warfighter’s effectiveness.

**Modeling and Simulation**

We offer a full array of hydrocode, finite element and lethality system effectiveness modeling and simulation to develop warhead concepts that deliver maximum lethality against a wide array of targets including fixed, mobile, hardened and buried.
Hydrocode Phenomenology Modeling
- Detonation/Deflagration/Blast
- Explosively Formed Penetrators (EFP)
- Shaped Charges
- Blast/Fragmentation
- Reactive Materials
- Geological/Non-Geological Penetration
- Directed Energy Element

Devastating Lethality Against Multiple Target Sets
Designed for effect, built for lethality. Our family of warheads offers the warfighter the effects he needs for superiority on the battlefield.

Multimode Effects
Our advanced Multimode warheads offer full advantage to the warfighter with lethality against multiple targets:
- Anti-Armor, Materiel and Personnel
- MOUT structures
- Blast and Thermobaric effects

System Effectiveness Analysis
- System Design
- Insensitive Munition
- Aircraft Integration
- SEEK EAGLE
- Weaponeering
- Flyout
- Target Strike
- Lethality

Next Generation Blast and Fragmenting Warheads
Blast and fragmentation warheads destroy the target while protecting military assets and personnel with Insensitive Munitions features.

World Class Shaped Charge Warheads
Advanced shaped charge warheads offer improved performance in a more compact package, creating space for additional weapon system features. Insensitive Munitions features support safe transport.