

**About Battelle**

Battelle is the world's largest nonprofit independent research and development organization, providing innovative solutions to the world's most pressing needs through its four global businesses: Laboratory Management, National Security, Energy Technology, and Health and Life Sciences. It advances scientific discovery and application by conducting \$5 billion in global R&D annually through contract research, laboratory management, and technology commercialization.

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# The Battelle RPTI Team

## Ready to Support Picatinny's Rapid Prototyping Technology Initiative Needs through the RPTI Contract

The Battelle RPTI Team stands ready to rapidly solve your most urgent and challenging problems.

The Battelle RPTI Team has years of proven experience providing solutions in munitions and weapons systems development, sensors, energetics, robotics, warheads, environmental, demilitarization, manufacturing, prototyping, foreign armament acquisition and other specialized capabilities, materials, and skills not otherwise readily available.

**What is the purpose of RPTI?**

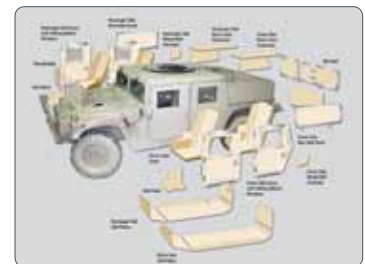
RPTI is a rapid contract mechanism to quickly respond to mission requirements.

**RPTI provides:**

- Processing, supply, and fabrication of a wide range of materials into armament related products
- Fabrication and/or refurbishment of armaments or related manufacturing equipment
- Prototyping and engineering services
- Procurement of foreign ammunition and weapons for training, comparison and testing

**Battelle Expertise:**

- Comprehensive energetic materials and armament RDT&E supported by specialized test facilities
- Modeling and simulation of high energy events including terminal ballistics, EFP/shaped charge formation, vehicle survivability and warhead fragmentation
- Advanced material development and test: composites, polymers, coatings, adhesives, corrosion
- Expertise in dynamics, acoustics, structural analysis, fatigue, fracture, and tribology
- Rapid prototyping
- Weight/threat optimized armor development and integration
- Robotics and unmanned systems integration
- Electronics, sensors and information systems
- Hazardous waste remediation and demil solutions
- Force protection systems design
- Systems engineering



Battelle has teamed with the following companies to provide a full range of capabilities to Picatinny:



**Ahura Scientific** manufactures hand-held chemical and explosives detection systems, including FirstDefender, and TruDefender FT.



**Franklin Engineering** provides process engineering, mechanical design, electrical instrumentation/controls design, and environmental services for armament manufacturing equipment and facilities.



**American Ordnance** develops and loads, assembles, and packs (LAP) medium- to large-caliber ammunition, shaped charges, and prototype warheads.



**Global Tungsten and Powders** manufactures, and supplies globally, tungsten and molybdenum chemicals, powders, and components, and lighting and electroluminescent phosphors.



**ARES** designs, develops and tests weapon & feed systems, specialty gun tubes and firing fixtures, and provides interior/exterior ballistics, weapon, armor and arena test services.



**Kuchera Defense Systems** provides circuit card assembly, cable harness, electromechanical manufacturing, systems integration, and engineering services specializing in unmanned ground and air systems.



**The Applied Research Lab** conducts applied research in the materials and manufacturing domains including composites, macro and nano-materials processing, structural health and monitoring, industrial lasers, acoustics, NDT, and many more.



**Medico Industries** performs process engineering; designs, develops, manufactures, and installs armament components and equipment.



**A-T Solutions** produces fully functional IEDs, procures and provides foreign material, hazardous material transportation, and explosive ordnance disposal (EOD), training, and technology support.



**Nakaya Construction** provides construction, construction management, and facilities modernization.



**ATK** designs, develops, manufactures, and tests precision weapons systems.



**NovaTech** rapidly delivers first-of-a-kind hardware using advanced design, analysis, and manufacturing technologies. NovaTech supplies precision-formed metal parts including shaped charge liners and other critical components.



**Edison Welding Institute** is a leading U.S. engineering and technology organization dedicated to the research and development of materials joining and welding technology.



**Savit Corporation** provides engineering analysis and support including design/development and value engineering, producibility, manufacturing, quality assurance, and maintenance of major Army weapon systems and facilities.



**Esterline Defense Technologies** designs, develops, and manufactures combustible ordnance and expendable countermeasures.