

## ON-SITE FACILITIES

- 3D Printing Lab
- Additive Manufacturing Facility
- Advanced Composites Lab
- Breech Fatigue Simulation Facility
- Chemistry Lab
- Corrosion Lab
- Electrochemical Machining Lab
- Electromagnetics Lab
- Electronics Design and Development Lab
- Experimental Mechanics Lab
- Fatigue and Fracture Analysis Lab
- Gun Dynamics Lab
- Laser and Optics Lab
- Manufacturing Prototype Center
- Materials Engineering Lab
- Materials Science Lab
- Motion Base Simulator
- Product Development Lab
- Rapid Prototyping Lab
- Reverse Engineering Lab
- Tube Fatigue Simulation Facility
- Vehicle Integration Lab
- X-Ray Lab



[www.ardec.army.mil/benet](http://www.ardec.army.mil/benet)

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# Benét Laboratories

*Tomorrow's Solutions Today*



Experience

Innovation

Expertise

Watervliet Arsenal, NY





## WHO WE ARE

Benét Laboratories is a Department of the Army research, development, and engineering facility. It is the U.S. Army's design authority for large caliber armaments and safe life considerations.

A part of the Weapons & Software Engineering Center (WSEC), Armament Research, Development, and Engineering Center (ARDEC), Benét is located at the historic Watervliet Arsenal, an Army-owned and operated manufacturing facility, in upstate New York. The co-location of Arsenal manufacturing and Benét Labs offers military and civilian business entities a one-stop shop for research, design, prototype development, full manufacturing, and long-term customer service.

Through its vertical integration capabilities and expertise, Benét is recognized as a Center of

Excellence for supporting the management and execution of life cycle research, development, engineering, design, producibility, and engineering standardization programs for large caliber armaments, mortars, and direct fire systems. A full complement of modern laboratory equipment, along with a highly trained staff of scientists, engineers, and technicians, enables Benét to be a world leader in innovative technology and applications. Benét is ISO 9001 certified.



## DOING BUSINESS WITH BENÉT LABS

The Army is not Benét's only customer. Industry, academia, and other government organizations can benefit from Benét capabilities through some of the following technology transfer mechanisms:

- **Cooperative Research and Development Agreement (CRADA)** is a written agreement between a federal lab and a non-federal party under which the Government, through its laboratories, can provide personnel, facilities, equipment or other resources with or without reimbursement.
- **Test Service Agreement (TSA)** enables federal laboratories to make test facilities and services available to any person or entity for a fee.

- **Patent License Agreement (PLA)** is a contractual agreement between the licensor (IP owner) and a licensee that grants the licensee the right to make, use, and sell the patented invention. Some of Benét's patents have commercial applications and are available for licensing.
- **Educational Partnership Agreements (EPA)** and Memorandums of Agreement/Understanding (MOA/MOU) are other available partnering mechanisms.
- For more details, please contact Benét's Business Planning and Development Office at: [usarmy.watervliet.rdecom.list.bene-benetbusiness@mail.mil](mailto:usarmy.watervliet.rdecom.list.bene-benetbusiness@mail.mil)



## CORE CAPABILITIES:

### Armament Design and Development

- Armament Health Monitoring
- Combat Vehicle Integration
- Computational Fluid Dynamics
- Design and Development of Artillery Cannons, Mortars and Tank Guns
- Direct and Indirect Fire Cannon Life Cycle Management
- Dynamic Engineering Multimedia Analysis
- Flexible Multi-body Dynamics Modeling and Controls
- Large Caliber Direct Fire Systems Mount and Recoil Mechanism Life Cycle Management
- Simulation and Response Modeling
- Technical Data Package Development
- Test Planning
- Test Support (On-site/Off-site)

### Production Support and Field Sustainment

- Advanced Heat Treat and Advanced Casting Techniques
- Field Modifications
- Field Wear and Erosion Surveys
- Flow Form Technology
- High-Performance Material Development, Testing and Characterization
- Laser Enhanced Net Shape Manufacturing
- Malfunction Investigations and Forensic Analysis
- Materials and Manufacturing Production Support
- Rapid Prototyping/Stereolithography
- Reverse Engineering
- Rotary Forging and Plating Technologies
- Vehicle Turret Support and Sustainment

### Science and Technology

- Advanced Materials Research
- Composite Design and Manufacturing
- Fracture Analysis
- Future Weapon Concepts
- High Pressure Fatigue Analysis
- Safe Service Life and Fatigue Life Testing
- Weapons Wear and Tribology
- X-Ray Diffraction and Stress Analysis

**BENÉT'S CAPABILITIES, EXPERTISE, FACILITIES, AND OTHER RESOURCES ARE AVAILABLE FOR NON-MILITARY APPLICATIONS**

