

**NATICK SOLDIER RESEARCH,  
DEVELOPMENT & ENGINEERING CENTER  
(NSRDEC) OVERVIEW:**

The Natick Soldier RD&E Center (NSRDEC) is located at the U.S. Army Natick Soldier Systems Center in Natick, Massachusetts, under the Army's Research, Development and Engineering Command (RDECOM). We have the dedicated mission to maximize the Warrior's survivability, sustainability, mobility, combat effectiveness and quality of life by treating the Soldier as a System. Situated near the birthplace of the Nation's Army, NSRDEC is also the birthplace of the Soldier as a System concept.

**OUR VISION IS TO BE:**

The Recognized Center and Partner of Choice for Warrior and Homeland Defender Related Research, Technologies and Systems.

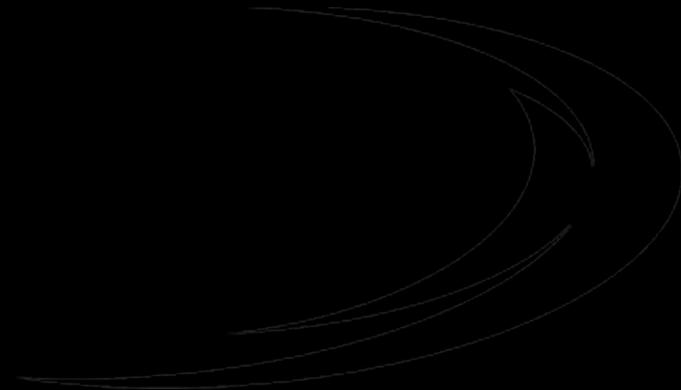
**OUR MISSION IS TO:**

Maximize the Warrior's Survivability, Sustainability, Mobility, Combat Effectiveness and Quality of Life by Treating the Warrior as a System.

**OUR FOCUS IS TO:**

Deliver world class research, development, systems engineering and services, with a unique human-centric focus, by:

- cultivating a highly motivated, expert and agile workforce;
- exceeding customer and stakeholder expectations;
- delivering what we promise at an unprecedented pace and honoring our commitments;
- fostering long term strategic partnerships and collaborations with key customers, other government agencies, industry, and academia.



# **NSRDEC PROTOTYPE FACILITIES**

## From Concept to Design and Small-Scale Production



**US ARMY NATICK SOLDIER  
RESEARCH, DEVELOPMENT & ENGINEERING  
CENTER (NSRDEC)**

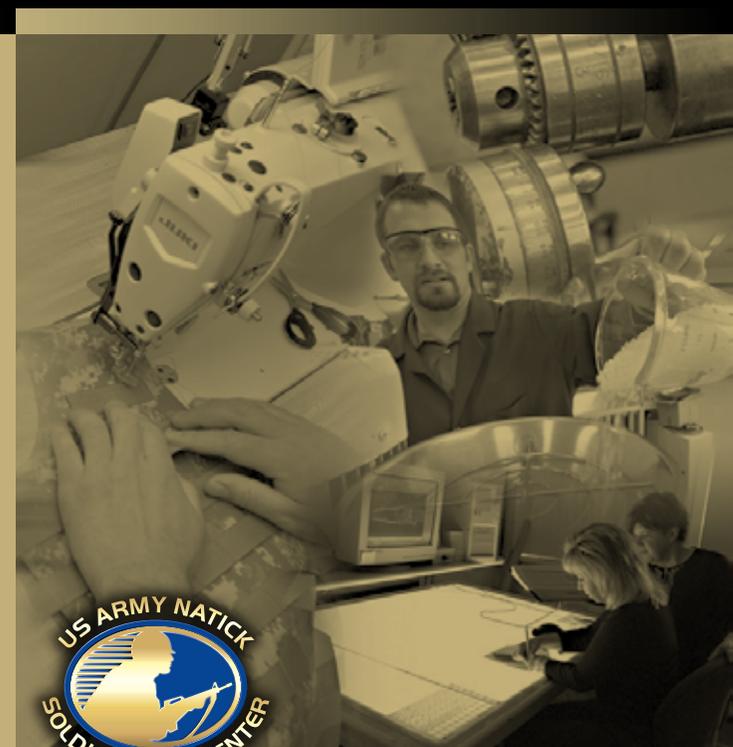
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# NSRDEC PROTOTYPE FACILITIES

## DESIGN PATTERN AND PROTOTYPE FACILITY

- Design and develop combat and dress clothing and equipment items including ballistics and chemical protective gear
- Fabricate representative prototypes
- Furnish computer-generated patterns using state-of-the-art Computer Aided Design (CAD) system & cutting-edge flat bed cutter
- Validate technical data packages for large-scale procurement



## MECHANICAL FABRICATION AND ASSEMBLY SHOP

- Fabricate and assemble systems and equipment utilizing prototyping speciality materials and techniques such as: wood and plastic, machine, sheet metal, waterjet cutting and welding
- Refurbish equipment damaged or degraded in the field
- Modernize & upgrade equipment



**Dedicated to Maximizing the Warrior's Survivability, Sustainability, Mobility, Combat Effectiveness and Quality of Life by Treating the Soldier as a System.**

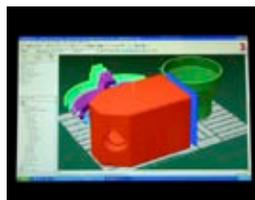
## AERIAL DELIVERY DESIGN AND FABRICATION FACILITY

- Design and fabricate prototype parachutes, harnesses, & accessories
- Upgrade/repair fielded equipment
- Provide quick response production capabilities
- Provide technical support for Quality Deficiency Reports (QDRs)/ Engineering Change Proposals (ECPs)



## CAD AND RAPID PROTOTYPING

- Create three dimensional (3D) solid Computer Aided Design (CAD) models
- Conduct engineering studies
- Produce 3D prototypes directly from CAD data



## TENTAGE PROTOTYPE SHOP

- Design and fabrication of tentage prototypes and supporting fabric accessories
- Small Production Run Capabilities
- Support development programs to include Chemical and Biological (CB) protected shelter systems



## ADVANCED FOOD PROCESSING AND PACKAGING

- Combat ration development
- Prototype and test (e.g. sensory, micro-biological, chemical and physical) combat rations
- Pilot plant production and assembly area for rations and ration components
- Design, fabricate and test prototype ration packages (e.g., bags, pouches, trays, cartons, etc.)
- Evaluate prototype ration packaging systems against all environmental conditions

