



## PROTOTYPE AND PRODUCTION INTEGRATION FACILITY (P<sup>2</sup>IF) | Shelters Technology, Engineering & Fabrication Directorate (STEFD)

### OVERVIEW:

The P<sup>2</sup>IF is a rapid response virtual facility that integrates NSRDEC's broad array of prototyping cells into a single consortium. Customers may enter through any one of the six nodal partners and access a spectrum of skills and services. Our focus is on providing rapid and standard prototypes, improvements to existing designs, refurbishment of existing systems, testing, and small production runs to meet user requirements.

### DESCRIPTION:

The P<sup>2</sup>IF possesses a broad range of expertise and specialized equipment for reverse engineering, CAD, proof testing, and fabrication across a wide range of specialty areas. The P<sup>2</sup>IF is augmented by behavioral sciences based assessments, anthropometric studies; hyperbaric and environmental chamber testing, and fiber development and extrusion.

The primary nodes of the facility are:

- **Clothing Design Pattern & Prototype Facility:** Design and develop combat and dress clothing, including ballistics and chemical and biological (C/B) agent resistant protective gear.
- **Mechanical Fabrication & Assembly Shop:** Full service machine shop capable of fabricating prototype systems, refurbishing equipment degraded in the field, and modernizing and upgrading equipment.
- **CAD & Rapid Prototyping Cell:** Creates 3-D CAD models, conducts engineering studies, finite element analysis and produces 3-D rapid prototypes from CAD data.
- **Aerial Delivery Design & Fabrication Facility:** Design and fabricate prototype parachutes, harnesses and accessories, upgrade and repair field degraded aerial delivery equipment, and provide technical support for Engineering Change Proposals.
- **Tentage Prototype Shop:** Design and fabrication of tentage prototypes, accessories, special purpose covers and C/B resistant liner systems.
- **Flexible Packaging Laboratory:** Design, fabricate and test prototype packaging for rations and other items including the ability to subject prototype packages to all environmental conditions.

### POINT OF CONTACT:

#### STEFD Liaison

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