



# Additive Manufacturing

Tobyhanna Army Depot (TYAD) is the U.S. Army Center of Industrial and Technical Excellence (CITE) for Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR), Electronics, Avionics and Missile Guidance and Control. TYAD is the U.S. Air Force Technology Repair Center for Command, Control, Communications, Computers and Intelligence and Tactical Missiles.



### CAPABILITIES

With the use of Computer Aided Engineering, TYAD can offer Additive Manufacturing services. TYAD uses a variety of systems which reduces setup time, develops complex designs, and creates multiple parts in one run. These services save money, while encouraging modifications, new development, and enhanced troubleshooting and analysis.

- On demand, full scale prototype with perfect precision
- Reverse Engineer simple to complex components and part geometries utilizing 3D scanner/imaging software
- Proof of concept prior to full rate production
- Design changes can be made quickly with minimal cost
- Ability to print obsolete/difficult to procure components (non-metal)
- No minimum qty, "lights off" production

TYAD is an active member  
of the  
America Makes

### WHY ADDITIVE MANUFACTURING?

Additive Manufacturing will redefine manufacturing. Laser scanning and 3-D printing enables design engineers to produce engineering models, reverse engineer products and validate the design to manufacture products in days rather than weeks. This technology opens a new world of possible applications to reduce cost, time to production and reverse engineer products that were previously not cost effective.

### SPECIALIZED EQUIPMENT

- Dimension SST 1200es
- Objet Connex 500
- Romer Absolute Portable 3D Imaging System with Geomagic Design Reverse Engineering Software



From left to right (concept to delivery)