

# Supply Chain

## Resilient

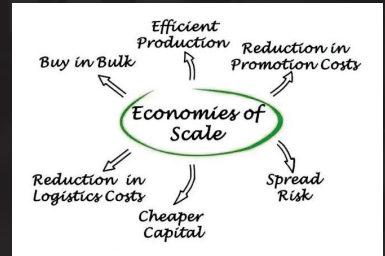
- Supply chain risk management
- Obsolescence management
- Collaborative, integrated planning with enterprise partners

## Resourceful

- Working Capital Fund: flexible, non-profit, competitive rates
- Alternative sourcing strategies to tackle supportability concerns
- Extensive continuous relationships with wide variety of internal/external partners

## Responsive

- Sustaining engineering capability to address challenges
- Logistics data: accurate, timely and authoritative
- Innovative approach to address future challenges
- Surge capability: engaged stakeholder responding to today's fight



# Customers/Partners



**Private Industry  
Partners**

# Engine Test Services

## Core Capabilities:

- Computer Controlled Testing
- 8 Meter Test Cells
  - 0-100,000 lbs Thrust
  - Air Flow of 4000 lbs/second
- 5 Meter Test Cells
  - 0-50,000 lbs Thrust
  - Air Flow of 425-550 lbs/second

## Tear-down Deficiency Report (TDR)

- Complete teardown of engine mishaps
- Investigation management and reporting

## Reclamation and Trailer Repair

- Engine teardown
- Material and parts processing
- Minor engine trailer repair



# Innovative Repair Capabilities

## Repair Development Engineering Services

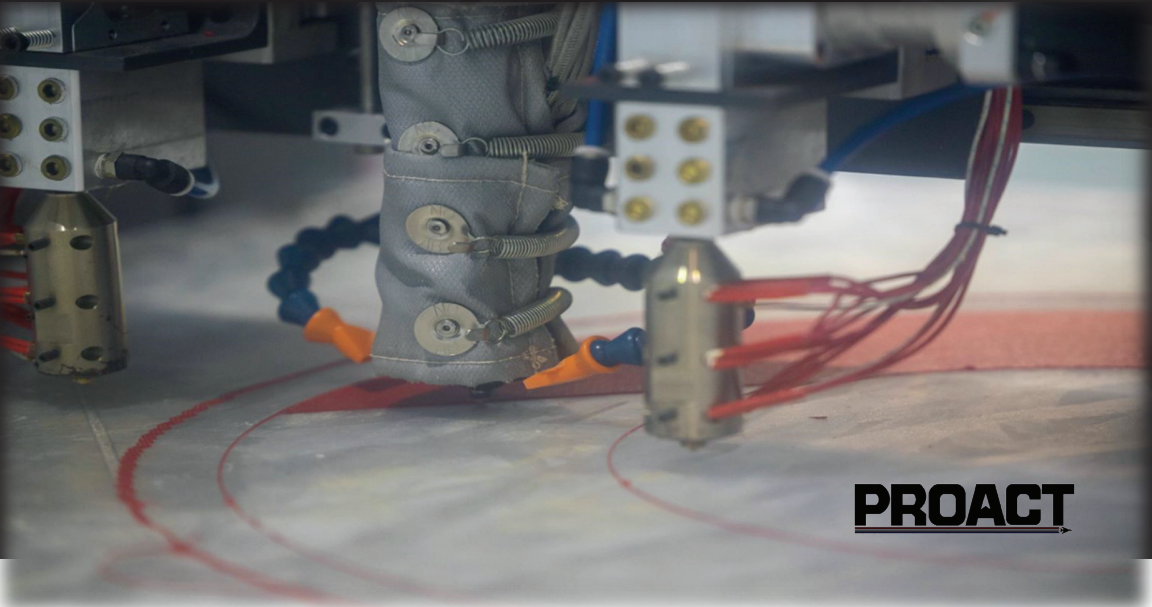
- Combined 100+ years of repair development experience
- Leveraging new and old techniques to eliminate supply shortages
- Engineered masking, specially designed polymer masking for in-process part protection of thermal spray and plating processes
- Rapid prototyping and tooling manufacture (tooling, fixtures, masking)

## Additive Repair Capabilities

- Directed Energy Deposition (DED)
- Laser Cladding
- Cold Spray, including Laser Assisted
- Thermal Spray
- Welding

## Other Capabilities

- Polymer 3D Printing
- Hybrid Additive/Machining
- Robotics and Automation
- Measurement (Scanning and Mobile CMM)
- Augmented Reality/Virtual Reality



**PROACT**

# Component Services

## Core Capabilities:

- Stripping
- Cleaning
- Inspection
  - Automated Eddy Current including Phased Array
  - Automated Ultrasonic Inspection (UTI)
  - XRAY
  - Vibro Thermography
  - 4D inspection
- Coordinate Measuring Machine (CMM Dimensional Inspection)
- Welding (Laser, Electron Beam, Directed Energy Deposition)
- Thermal Spray
  - Plasma Spray
  - HVOF Spray
  - Flame Spray
  - Wire Spray
  - Cold Spray
  - Rubber and Composite Repairs
  - Plating
  - Machining and Manufacturing
    - 5 Axis-precision machining and grinding, Butler Newall blade tip grinding, IBR (Integrated blade rotor) smart blend, laser drill
  - Corrosion Control and Coating Application
  - AMS 2750 Compliant Heat Treat
  - Level 1 Bearing Inspection



# Engine/Module Services

## Core Capabilities:

- Engine disassembly and assembly
- Removal, replacement, installation of LRUs
- Blade grinding
- Rotor balancing
- Moment weighing
- Close Tolerance Assembly
- Static/Dynamic Balance
- Flow Rate Verification
- Precision Measurements
- High Value Mechanical /Precision Torque
- Time Critical Technical Order upgrades
- Decoking of oil lines
- Vibration/trim balance surveys
- Full module repairs
- QEC swaps, removal, and installation
- Fuel nozzle exchanges



# Platforms Supported

**F-35 / F135**



**B-52 / TF33-P103**



**E-3 / TF33-P100**



**KC-135 / F108-100**



**AGM-86 / F107**



**RC-135 / F108-201**



**E-6 / F108-200**



**B-2 / F118**



**F-16 / F110-100**



**F-22 / F119**



**C-17 / F117**



**F-15 / F100**



**RQ-4 / F137**

