

2016 Maintenance Innovation Challenge

Replicating Tyndall AFB's Innovation Flight

PROBLEM STATEMENT

- How do we reduce DoD project costs by 90%, throughput from years to days, increase performance, and provide an avenue for maintenance innovation?
- Special Devices (SD) is the answer! SD is an organic prototyping, modification, and repair shop that is able to fabricate innovative solutions for customers DoD wide while improving cost, schedule, and performance; similar to the Air Force Repair Enhancement Program (AFREP). Unlike others, SD merges enlisted maintainer's experience and skillset with developmental engineer's design to create a solution based and resource saving force to be reckoned with.

BENEFITS

- Rapid cradle to grave support
- State-of-the-art equipment (3 & 4 axis mill/lathe, water jet cutting, circuit fabrication) & training
- 3D modeling & printing prototypes including functional parts
- Government owned tech data
- Average 1/10th the cost of contracted supply sources
- Flexible schedule & priorities allows for quick response (days/weeks) when required
- Multidisciplinary maintenance (metals tech, sheetmetal, avionics) & acquisitions (developmental engineer) workforce
- Onsite testing & evaluation of designs
- Advanced training funnels back into AF workforce
- Maintenance to SPO bridge (able to fill supply stopgaps)

TECHNOLOGY SOLUTION

- Implement SD shops at strategic locations to support AF and DoD operational requirements, saving millions annually.
- New shop requires 15-20 members outfitted with \$1.5M in cutting edge equipment and training. Results enable OT&E, LFT&E, SPOs, MAJCOM Plans, & Joint missions improving the agility & affordability of maintenance.

Drone Weight Beam

• Contractor: \$360K
• Special Devices: \$25K

F-15 Tank Mount Repair

• Supply: 1 year
• Special Devices: 1 Week

Army Antennas

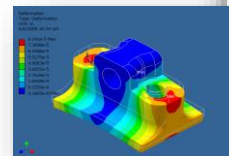
• Contractor: \$44K
• Special Devices: \$4K

AF-Wide Altitude Chamber Rails

• Contractor: \$400K
• Special Devices: \$21K

GRAPHIC

53^d TEST SUPPORT SQ
SPECIAL DEVICES FLIGHT
TYNDALL AFB, FLORIDA



We provide engineering, design and manufacturing capability enabling rapid transition from concept to operational demonstration.