



CORPUS CHRISTI ARMY DEPOT THE CORNERSTONE OF AVIATION READINESS



Full Spectrum Support to the Fleet



Worldwide On-Site
Depot Maintenance
Support

Vision

- Provide our Nation the best value solution for modification, repair and overhaul of rotary wing components and aircraft; posture the depot to meet our Nation's future requirements in peacetime and at war.

Recapitalization,
Overhaul & Crash
Battle Damage
Repair

Imperatives

- Quality – Schedule – Cost – Production Management – Audit Readiness – CAMS

Aircraft
Modernization &
New Build

Mission

- Return rotary wing aircraft and components to the Department of Defense and other government organizations with uncompromising quality, on schedule, at the lowest possible cost.
- Assess, evaluate and repair forward-deployed aircraft and components worldwide. Provide permanent on-site depot capacity to the U.S. Army Aviation Center of Excellence at Fort Rucker.
- Support the Army's accident investigation processes worldwide with materials expertise and laboratory analysis.
- Support Active, Reserve and National Guard aviation maintenance skill development with hands-on training at the depot.

Component and
Secondary Items
MRO

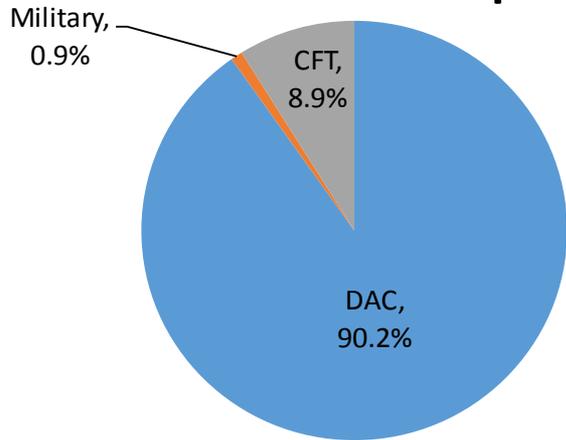
Hands-on Training



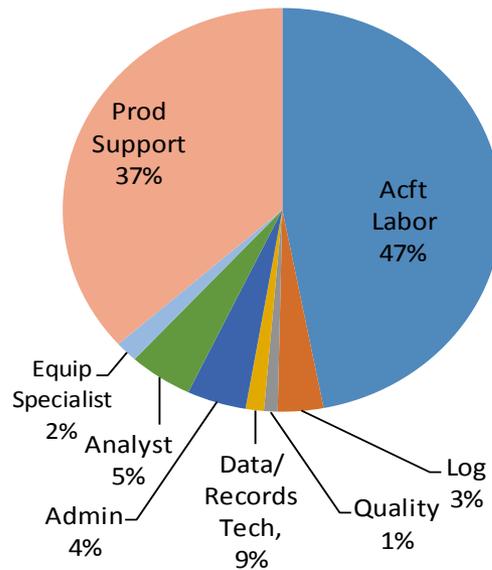
CCAD Workforce Demographics



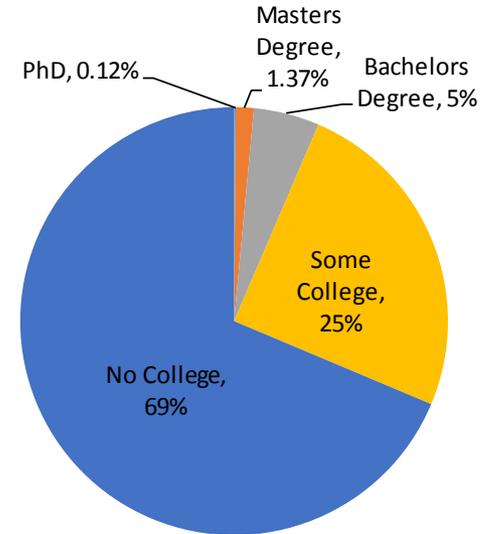
Workforce Composition



Contractor Workforce Skill Set Mix



Government Workforce Education





Potential Opportunities



Description	Objective	Target IOC
Cold Spray Technology	<ul style="list-style-type: none"> The Cold Spray is an additive manufacturing process which uses commercially available metal powders accelerated to supersonic speeds to restore the original dimensions of the damaged substrate. Technology Readiness Level (TRL): 8 	2019
Isotropic Super-Finish (ISF)	<ul style="list-style-type: none"> ISF is a controlled chemical and vibratory polishing method used to produce smooth mirror-like finishes to component surfaces, where high contact stresses occur, such as drive system gears. Components that utilize the ISF benefit from reduced wear, reduced friction, improved cycle and contact fatigue resistance, resulting in overall enhanced performance, extended utilization, improved fuel efficiency, and reduced maintenance. 	2018
Toxic Metal Reduction: CR (VI) Free Conversion Coatings	<ul style="list-style-type: none"> Optimize Cr(VI)-Free conversion coatings implemented as an alternative to the current Cr(VI) containing pretreatment coatings. The primary objective is to demonstrate novel Cr(VI)-free pre-treatment technologies in relevant DoD environment. 	2019



Rollup of Support Contracts

Contracting Services, Supplies and Equipment



Direct/indirect purchases for FY16

- Material, Supplies, & Chemicals
- Laboratory Equipment and Supplies
- Office Furniture, Supplies, and Equipment
- IT Hardware/Software
- Aircraft Parts
- Technology Insertions
- Capital Equipment

Reduce
HazMat

- FY16:
 - Rotating Electric Test Stands
 - Magnetic Particle Inspection Equipment
- FY17:
 - Whirltower Upgrades
 - Cold Spray
 - Engine Test Cells Upgrades
- FY18:
 - Building 1700.2 Equipment



Partnering with Industry



Improved industrial processing requirements

1. Enhanced static balancing on main rotor blades to reduce dynamic testing
2. “environmentally controlled” structures for corrosion control and parts storage.
3. More efficient coating and sealant removal
4. Nondestructive testing & imaging through coatings
5. Shop floor visual inspection equipment
6. Mobile or portable hardness testing capability
7. Engine test cell load system analysis (Dynos vs Water Brakes)
8. Replacing Tagnite for magnesium housing overhaul

“Reducing Corrosion as a Readiness Cost Driver”



October 18-20, 2016

**12th Luther G. Jones
Army Aviation Sustainment Forum**

Corpus Christi, Texas



Sponsored by
Army Aviation
Association of
America

**Luther G. Jones Army Aviation Sustainment Forum (www.quad-a.org)
October 18-20, 2016**

Provides a Networking platform to exchange ideas and solutions to enhance awareness and gain efficiencies in the field of Maintenance for the Army Aviation enterprise. Learn about Corpus Christi Army Depot's (CCAD) capabilities for government and industry customers worldwide.

Provides an opportunity of enterprise input on progress made and unresolved corrosion issues facing aviation.



Questions?



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