

Small Business Opportunities in NAVAIR Lakehurst Science & Technology



Mark Husni Science & Technology Lead Support Equipment and Aircraft Launch & Recovery Equipment



AIR-4.8 Support Equipment & Aircraft Launch and Recovery Equipment









Technology Thrusts



Electromagnetics



Avionics Diagnostics



Prognostics and Health Monitoring



Robotics and Computer Vision

File: NAVAIR Brief

IAWA

Small Business Innovation Research (SBIR)



- Lakehurst: 1-2 research topics per solicitation
- Phase I
 - Feasibility study
 - \$80K, 6 months + \$70K, 3 months
- Phase II
 - Prototype build & demo
 - \$1M, 2 years
- <u>www.navysbir.com</u>



Compact Swaging Machine, CVN-76 Demo Creare, Inc.

Current SBIR Projects at NAVAIR Lakehurst

Advanced Data Compression Improved Slipper Material for Arresting Gear Components Advanced Wheel Bearing for Extreme Service Environments Advanced Arresting Gear Cable for Lighter Weight and Longer Service Life Automated Test Program Set Analysis for Maintenance Data Metrics Generation Lightweight Aircraft Tiedowns Intelligent Agents for Aviation Ordnance Handling Heat-Resistant Flight Deck Lighting Fixtures Boundary Scan Enhanced Diagnostics Water Brake Corrosion Inhibitor Improved Electronics Maintenance through Tester Prognostics



In-Line Fuel Sampling, CVN-76 Demo Physical Sciences, Inc.



SBIR – Who is Eligible?



- To participate, a company must:
 - Be a small business with 500 or fewer employees;
 - Be independently owned and operated and organized for profit;
 - Have its principal place of business in the U.S.;
 - Be at least 51% owned by U.S. citizens or lawfully admitted permanent resident aliens.
- In addition:
 - The primary employment of the principal investigator must be with the small business.
 - A minimum of ³/₃ of the research work must be performed by the proposing firm in Phase I and ¹/₂ in Phase II.



Potential Upcoming SBIR Topics



- Robust Electronics for Aircraft End Speed Indicator
 - Jan 2016, Not yet approved
- Low-Cost Wind Measurement for Large Airspace
 - May 2016, Not yet approved
- Possible future topic ideas:
 - Cross Deck Pendant (Arresting Cable) Service Life Model
 - "Another" Advanced Arresting Cable topic
 - Electric Rotary Retract Engine for Steam Catapults
 - Automated Software Testing

