Procurement Technical Assistance Centers provide no-cost assistance to help firms succeed in government contracting.

Find your local PTAC at www.aptac-us.org

Tiffany Scroggs, Washington State PTAC
360-464-6041
programmanager@washingtonptac.org

PTACs are funded in part through a cooperative agreement with Defense Logistics Agency
Maintenance, Engineering and Industrial Operations Department

Mr. Jim Bleich
Today’s Navy

Challenge: Rapidly changing systems & new technologies
• Static maintenance technology
• Hub & spoke maintenance model
• Stove piped and segregated maintenance / production pipelines

Development Priorities
• Data Science / Machine Learning / AI for predictive maintenance
• Model based systems engineering
• Model based product support
• Advanced USW Weapons
• UUV maintenance / payloads
• Alternative propulsion / energy
• Automation and robotics
• Additive manufacturing / repair / advanced coating technology
• Maintenance of advanced systems

Next Navy (+5-10 years)

Current Focus
Develop maintenance technology, facilities, and processes that incorporate model based, data science enabled, flexible and adaptive capabilities to support multiple platforms and systems. Evaluate, assess and apply the disruptive technology to reduce maintenance, sustainment and logistics burdens.

• Agile maintenance facilities aligned around diverse Fleet, weapon, and UUV technologies, missions and requirements
• Data science, machine learning and artificial intelligence backed by model based systems engineering to enable conditions based and predictive maintenance
• Maintenance technologies and processes that support agile Fleet maintenance in the IMA, Depot, Shipyard, at sea and expeditionary environments

Navy After Next (+20 years)

Vision of the Future
Advanced maintenance systems and capabilities enabling forward-based or on-platform maintenance of systems, vehicles, or weapons.

• Maintenance and repair using integrated / advanced technologies to provide real-time in-situ solutions
• Autonomous maintenance systems
• Model based life cycle support that includes on-demand part production from cloud-based logistic libraries

USW Vehicle and Weapon Maintenance
At-Risk Material Support
Maintenance Technology Insertion
Services

- **N00253-18-F-3000 Industrial Services/Trades**
  - Delphinus contract (large business)
  - Awarded 20 Oct 2017; IDIQ/CPFF; Base Year Plus 4 option years

- **N00178-04-D-4083 FY07 Engineering Support Services**
  - McLaughlin Research
  - Awarded 09 Nov 2016; IDIQ/CPIF; Base Year Plus 3 option years

- **Other Services**
  - Calibration of tooling
  - Test set and small appliance repair
  - Machine maintenance
  - Analysis and repair
  - GFM provided for upgrade to new baseline
  - Weapons grade machining/fabrication
  - Electroplating and anodizing
  - Electronics test equipment repair

Material

- **Circuit Card Assemblies**
  - Printed wiring boards

- **Aluminum Alloy Fabrication**
  - Shells; pump heads; plates

- **Mechanical Assemblies**
  - Valves; accessory bulkhead
  - Forward and Aft fuel tank; engine housings

- **Electrical Assemblies**
  - Power supplies; circuit card assembly

- **Electro-mechanical Assemblies**
  - Parts washers; automated test equipment
  - Chiller

- **Cable Assemblies**

- **Computers**

- **Unique Consumables**
  - O-rings; electromagnetic interference gaskets; valve seats; cadmium screws
  - Wiper rings; seals; thrust washers
  - FDM material