TEST PROGRAM SET (TPS) LABORATORY ENGINEERING CENTER
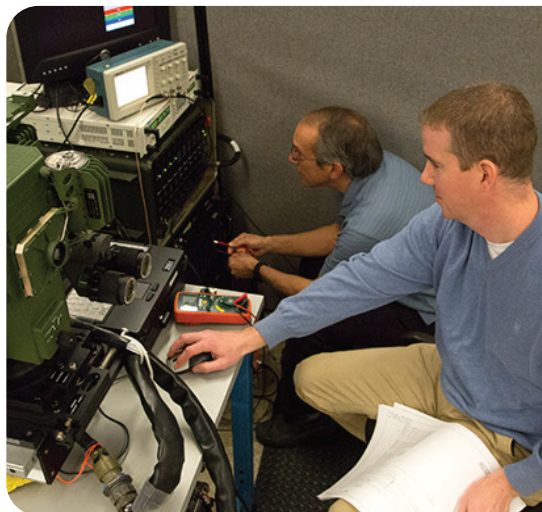
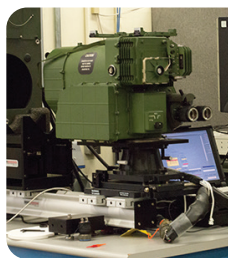## LABORATORY INFORMATION FACT SHEET

The Test Program Set (TPS) Laboratory provides an organic TPS development, maintenance, and life cycle management capability for Army LCMC Materiel Developers. Although it's primary responsibility is to Army TACOM LCMC, its capabilities have attracted other DoD Materiel Developers.

TECHNOLOGY/FACILITY DESCRIPTION:

The facility occupies 5,500 square feet used in support of the Army's Two-Level maintenance strategy, comprised of field and depot testing of weapon system components. The laboratory has a large in-house knowledge base of engineers, scientist, technicians, and contractors who have experience developing TPSs with limited or no LRU technical information, separating it from other LCMC support centers. This lab serves as the TACOM ATE/TPS support center, as identified in AR 750-43 (Test, Measurement and Diagnostics Equipment) and DA PAM 750-43 (TPS Implementation Guide). Current TPS customers are ABRAMS - BRADLEY Family of Vehicles, Paladin M109A6/A7, STRYKER, CREW/DUKE, M777A1/A2 LW155 Towed Howitzer, Husky HMDS, Mounted Family of Computer Systems (MFoCS), Common Remote Operated Weapon Station (CROWS), CROWS Low Profile (LP), and Marine Corps LAV.

The Automated Test System (ATS) Configuration Control Center (CCC) within the TPS Laboratory provides the capability to store and manage system configuration information, developmental information, and ATS hardware, firmware, and software. The CCC is dedicated for configuration control for hundreds of TPSs and developmental data. All TACOM TPS software masters, associated Inter-Connecting Devices (ICDs), and Units Under Test (UUTs) as well as development documentation are tracked and maintained under computer data bases in the Center.

EQUIPMENT AND EXPERTISE AVAILABLE:

- Automatic Test Equipment (ATE) and ATE platforms:
  - NGATS (Next Generation Automatic Test System, IFTE V6)
  - NGATS EO (Next Generation Automatic Test System Electro-Optical)
  - Integrated Family of Test Equipment (IFTE) V3 & V5

- DSESTS - Direct Support Electrical Systems Test Sets
- TETS and VIPER with EO Capability - Marine Corps ATE
- Huntron Tracker
- DIT-MCO - cable test/wire analyzer
- Aurora (Mantech VTS-1000)
- Oscilloscopes

- Logic Analyzers
- Digital and Analog Meters
- TPS development
- TPS Management Plan development
- TPS deployment and training support
- Diagnostics
- Design for Testability
- LORA support