TARDEC OVERVIEW
Tank Automotive Research, Development and Engineering Center
APTAC Spring Conference – Detroit
27 March, 2007

Peter DiSante, CRADA Manager

Superior Technology

Superior Army

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MISSION: TARDEC provides full service life cycle engineering support to the TACOM LCMC, PEO GCS, PEO CS&CSS, and PM FCS to develop and integrate the right technology solutions to improve the effectiveness of the current force and realize the superior capability of the future force to facilitate Army transformation.

VISION: TARDEC is the first choice of technology and engineering expertise for today’s and tomorrow’s ground vehicle systems and support equipment.
STATE OF THE ART LABS

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

ADVANCED COLLABORATIVE ENVIRONMENTS
ADVANCED CONCEPTS LAB
ADVANCED MATERIALS & MANUFACTURING CENTER
BRIDGING
PHYSICAL PROTOTYPING
ROBOTICS
CREW STATION & EMBEDDED SIMULATION
PROPULSION
FUELS & LUBRICANTS
TRACK & SUSPENSION
WATER
LASER PROTECTION
ELECTRONICS ARCHITECTURE
NEXT GENERATION SOFTWARE

TARDEC
U.S. ARMY TANK-AUTOMOTIVE RESEARCH DEVELOPMENT AND ENGINEERING CENTER
TARDEC Product Lines

TARDEC is responsible for engineering support to more than 2,800 Army systems and many of the Army’s and DoD’s top joint warfighter development programs:

- Combat and Tactical Vehicles
- Logistics Equipment
- Water Generation and Purification
- Fuels and Lubricants
- Military Bridging
- Fuel and Water Storage, Distribution and Quality Surveillance Equipment
- Countermine Equipment

TARDEC’s Technology Thrusts

- Vehicle Survivability Systems
- Water Generation and Purification
- Unmanned Vehicle Developments
- Advanced Vehicle Concepts
- Fuel and Lubricant Research
- Crew Station Integration and Automation
- Software/Vetronics
- Next Generation Software
- Hybrid-Electric Power
- Propulsion
- Fuel Cells
- Collaborative Environments
- Physical Prototyping
- Advanced Materials
- Analytical and Physical Simulation
- High Performance Computing
The TACOM LCMC integrates Army Acquisition, Logistics, and Technology (ALT) responsibilities, authorities, and processes to provide the best possible support to warfighters and one voice to the customer.
The primary mission of the National Automotive Center (NAC) is to serve as a catalyst linking industry, academia, and government in the development and exchange of automotive technologies that will benefit all sectors.
DUAL NEEDS FOCUS

SUPERIOR TECHNOLOGY FOR A SUPERIOR ARMY

MILITARY NEEDS

INDUSTRY NEEDS

COLLABORATIVE ENVIRONMENT

COMMON SPECIFICATIONS

DUAL-USE

NAC

COOPERATIVE AGREEMENTS

TARDEC

U.S. ARMY TANK-Automotive Research Development and Engineering Center
Small Business Innovation Research (SBIR) Program

Army SBIR Program – 07.2 PHASE I Time Table

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*www.acq.osd.mil/osbp/sbir/

The goal of the Army SBIR program is to tap into the innovation and creativity of small businesses to help meet the Army’s R&D objectives, and to develop technologies, products and software that can be commercialized through sales in the private sector or to the government.

TARDEC/PEO will have up to 24 topics posted
CRADA Technology Areas

- ACE, 3
- MANUFACTURING, 2
- M & S, 1
- ALTERN. FUELS, 4
- EDUCATION, 3
- MATERIALS, 2
- TRAILERS, 2
- WATER SYSTEMS, 1
- SAFETY, 14
- MAINTENANCE, 4
- ROBOTICS, 4
- PROPULSION, 5
- ELECTR. POWER, 9
- COMMUNICATIONS, 3
- SURVIVABILITY, 8
- MOBILITY, 13
- FUEL CELLS, 4
- FUEL, 1
- VETRONICS, 1

CRADAs are established between Federal Laboratories and commercial, academic, or non-profit partners to facilitate technology transfer between the parties for mutual benefit.

82 Active TARDEC CRADAs as of 1/8/07
SBIR / CRADA / Outreach Points of Contact

**TARDEC point of contact for CRADA:**

Pete DiSante  
Phone: (586) 574-8958  
E-Mail: disantep@tacom.army.mil

**TARDEC point of contact for SBIR:**

Mr. Jim Mainero  
Phone: (586) 574-8646  
E-Mail: maineroj@tacom.army.mil

**Mechanisms & Partnerships Team:**

E-Mail: tardec.nac.outreach@tacom.army.mil