



# TRAINING & SIMULATION

## INDUSTRY SYMPOSIUM



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*Director*

**U.S. Army RDECOM STTC**





# SFC Paul Ray Smith Simulation and Training Technology Center (STTC)

## WHAT WE DO:

- Manage several Science and Technology contracts (6.1 – 6.3)
- Conduct research, development, demonstrations, experimentation and building of prototypes
- Search for the latest and greatest technology innovations for training
- Synchronize and collaborate with academia, customers and labs all across the Army and Sister Services
- Rapidly support fielding as needed to support the Warfighter

## CORE COMPETENCIES:

- Embedded Training
- Medical Simulation Technologies
- Game Based Learning
- Synthetic Environment Tools  
(Simulation Environments)
- Advancement of research for training

## HOW WE DO IT:

- Approximately 72 military, civilians and direct contractors
- **Annual budget:**
  - ~ \$35M Mission    ~ \$10M Customer
  - ~ \$10M DARPA    ~ \$9M Congressional
- 2 Army Technology Objectives
- Over 40 Customers
- Support Joint and Coalition Research
- Manage the University of Southern California Institute for Creative Technology (ICT) and Modeling Architecture for Technology Research and Experimentation (MATREX) Programs
- Use cooperative / transition agreements for sharing and transition of work to Programs of Record

<http://www.rdecom.army.mil/STTC>



# MISSION

Conduct Simulation & Training Research and Development to enhance Warfighter mission effectiveness.



# STTC Strategic Goals

- **Goal 1: Conduct quality research**
  - (a) Real-Time Human-in-the-Loop Simulation Technologies
  - (b) Behavioral Representation
  - (c) Shared Simulation Environments
- **Goal 2: Promote learning and develop/maintain key competencies**
- **Goal 3: Create/maintain a state-of-the-art facility**
- **Goal 4: Educate our stakeholders**
- **Goal 5: Efficiently and effectively manage resources**



# Strategic Focus

- Ground School XXI
- JFCOM Irregular Warfare Requirements
- Dismounted-Mounted Soldier Training
- Manned-Unmanned Teaming

# A Partnership Approach to Success



**Program Executive Office Simulation, Training & Instrumentation (PEO STRI)**



**Army Research Institute (ARI)**



**Army Research, Development & Engineering Command**



**University of Central Florida (UCF) & Institute for Simulation & Training (IST)**



**Army Research Laboratory Human Research & Engineering Directorate (HRED)**



**USMA**



**University of Southern California (USC) & Institute for Creative Technologies (ICT)**



**US Army Medical Command**



**US Joint Forces Command**



**Department of Homeland Security**



**Industry Partnerships**



**Marine Corps PM Training Systems**



**NAVAIR Training Systems Division**



**Air Force Agency for M&S**



**International Partnerships**



# Other Key Supported Agencies

- DARPA
- Joint Improvised Explosive Defect and Detect Office (JIEDDO)
- Special Operations Command (SOCOM)
- Office of Naval Research (ONR)
- Air Force Research Laboratory (AFRL)
- ATEC Operational Test Command (OTC)
- Cross-Command Collaboration Effort (3CE)
- National Training Center (NTC)
- PEO's
  - Command, Control and Communications Tactical (C3T)
  - Ground Combat Systems (GCS)
  - Simulation, Training & Instrumentation (STRI)
  - Soldier
- TRADOC ARCIC Battle Lab Collaborative Simulation Environment (BLCSE)



# Doing Business with STTC

## Primary contracting vehicles:

- Broad Agency Announcement (BAA)
- Small Business Innovation Research (SBIR)
- Cooperative Research and Development Agreement (CRADA)

**ONLY 6.1 - 6.3 Funding**



# Broad Agency Announcement

BROAD AGENCY ANNOUNCEMENT (BAA)

Current BAA Solicitation Number is: W91CRB-08-R-0073

<http://www.rdecom.army.mil/STTC>

BAA expiration date is 11 August 2013. BAA is republished annually through the Government wide point of entry (FEDBIZOPS).

RDECOM STTC through RDECOM Acquisition Center, contracts with educational institutions, nonprofit organizations, and private industry for research and development (R&D) in various research areas identified in Part II of BAA W91CRB-09-R-0073.

If the research warrants further inquiry and if funding is available, then submission of a white paper/proposal will be entertained.



# BAA Process

- **STEP 1 – Telephone Contact**
- **STEP 2 – Informal White Paper**
  - Only RDTE 6.1, 6.2, and 6.3 can be placed on the BAA
  - no more than 4 pages in length and may contain a ROM
- **STEP 3 – Formal Research Proposal**
  - 30 to 45 days to prepare and submit
- **STEP 4 – Contract Award**
  - All proposals will receive a peer review
  - Basis for selecting proposals for award shall be scientific/technical merit, importance to agency programs, corporate capabilities, and personnel.

Detailed process included in backup



# Small Business Innovation Research Process

- **Phase I**
  - Awards typically \$60,000 to \$100,000
  - Period of six to nine months
- **Phase II**
  - Basis of results of their Phase I effort
  - Awards typically \$500,000 to \$750,000
  - Period not to exceed 24 months
- **Phase III**
  - The small business is expected to obtain funding from the private sector and/or non-SBIR Government sources to develop the prototype into a viable product or non-R&D service for sale in military and/or private sector markets.

**Small Business = < 500 employees**



# Cooperative Research and Development Agreement

## What is a CRADA?

A legal agreement between a federal laboratory and a non-federal party to conduct specified research or development efforts that are consistent with the missions of the federal laboratory

## CRADA Considerations:

- Selection done by the Director of the Government
- Not subject to the FAR
- 'Special consideration'
- 'Preference' given to CRADAs which manufacture the product in U.S.
- Typical term is 3 to 5 years
- Research results exempt from FOIA disclosure for 5 years

**Current CRADA in place with the University of Central Florida**

**In process of establishing CRADAs with several local industry partners**

# QUESTIONS

