

ARL-HRED-STTC

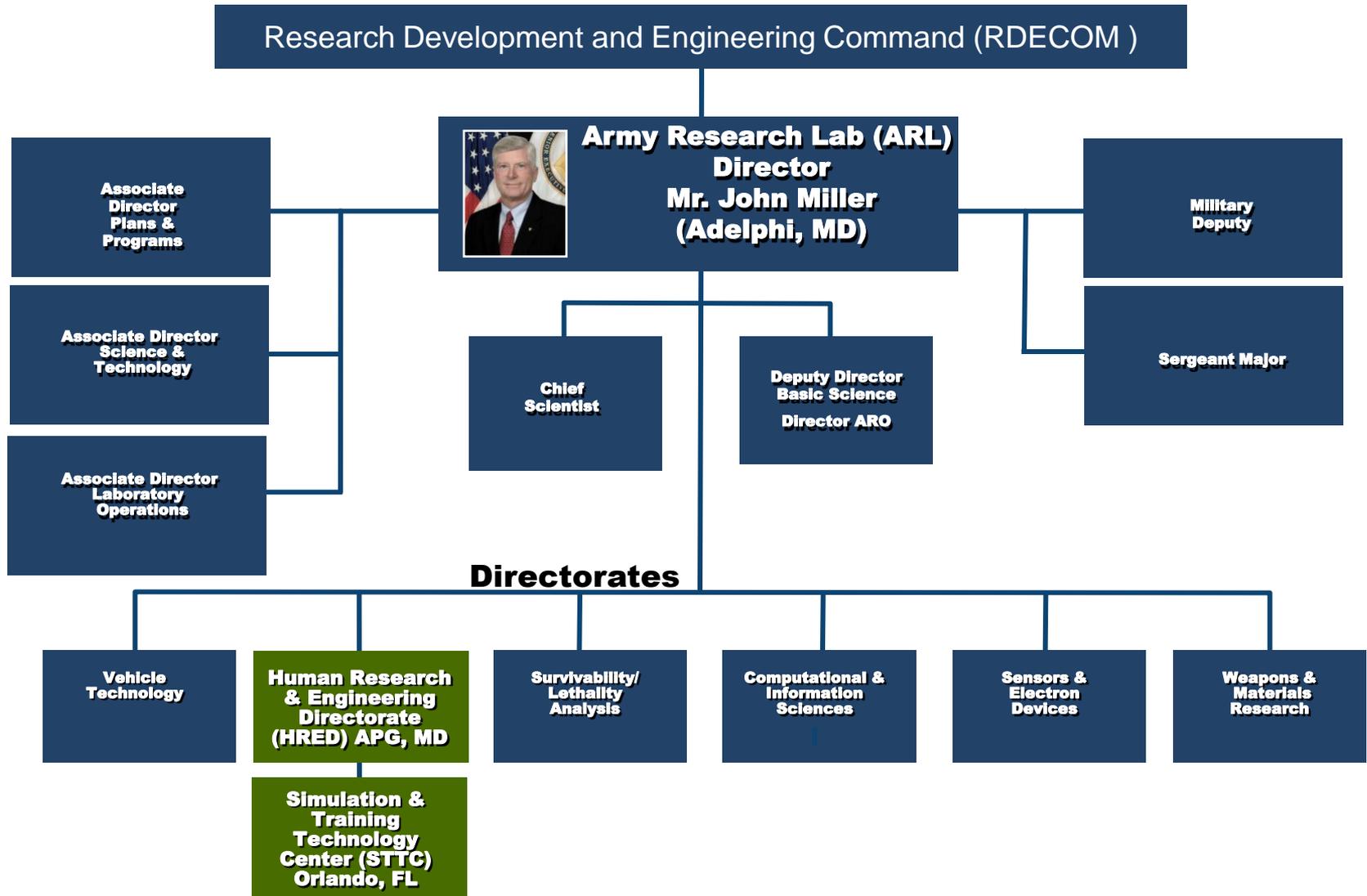


Neal M. Finkelstein, Ph.D.

Army Research Lab Human Research Engineering
Directorate Simulation & Training Technology Center



ARL-HRED-STTC Organization Structure





STTC Broad Agency Announcement (W91CRB-08-R-0073)

Description/Summary of Program Requirements

- To develop and advance the state-of-the-art in simulation, training, learning and instrumentation technologies with the overall goal of producing more efficient and effective Army training, test and evaluation systems for the Army's current and future forces. Collaboration between universities and industrial companies is encouraged. Project emphasis will be in those areas that explore and develop novel applications of new simulation, training and instrumentation technologies.
- The type of research solicited under this BAA attempts to increase knowledge in science and/or to advance the state of the art as compared to practical application of knowledge.

•**ARL BAA Website** <http://www.arl.army.mil/www/default.cfm?page=8>

ACQUISITION STRATEGY

The Broad Agency Announcement (BAA) is a competitive solicitation procedure used to obtain proposals for basic and applied research and that part of development not related to the development of a specific system or hardware procurement.

PERIOD OF PERFORMANCE

- Base period contracts typically 12-18 months with potential planned options.
- Proposals submitted in response to this BAA may be for a period of performance up to five (5) years.

MILESTONES

Date Posted



**August
2008**

Closing Date



**11 August
2013**

POINT OF CONTACT

Name: PAO Officer
 Organization: ARL-HRED-STTC
 Phone: (407) 384-5460
 Email: OPS.STTC@peostri.army.mil

FUNDING

- Budget activities 1, 2, or 3, are generally appropriate for a BAA.
- STTC has generally provided over \$100M annually in BAA contracts.

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- Open White Paper solicitation process - Competitive Competition
- Generally a 3rd quarter White Paper submission is best for funding cycles.



STTC Broad Agency Announcement Topics

Topic 1. BATTLEFIELD SIMULATION RESEARCH

- 1-A. Engagement Simulation and Instrumentation Technology
- 1-B. Position, Location, and Tracking for Live Training in Urban Terrain
- 1-C. Modeling and Simulation for Joint Multinational Warfare
- 1-D. Predictive Analysis Research
- 1-E. Synthetic Environment Modeling, Interchange, Access, and Reuse

Topic 2. Embedded Simulation & Training for Combat Systems and Vehicles

Topic 3. Dismounted Soldier Training Systems

Topic 4. Medical Modeling and Simulation

Topic 5. Complex Adaptive Learning Environments

Topic 6. Three-Dimensional Holographic Modeling and Simulation



ARL Broad Agency Announcement (W911NF-12-R-0011)

Description/Summary of Program Requirements

- Basic and applied scientific research across all the Army Research Laboratories Director orates core competencies
- The type of research solicited under this BAA attempts to increase knowledge in science and/or to advance the state of the art as compared to practical application of knowledge.
- **ARL BAA Website <http://www.arl.army.mil/www/default.cfm?page=8>**

ACQUISITION STRATEGY

The Broad Agency Announcement (BAA) is a competitive solicitation procedure used to obtain proposals for basic and applied research and that part of development not related to the development of a specific system or hardware procurement.

PERIOD OF PERFORMANCE

- Base period contracts typically 12-18 months with potential planned options.
- Proposals submitted in response to this BAA may be for a period of performance up to five (5) years.

MILESTONES

Date Posted



May 2012

Closing Date



31 March 2017

POINT OF CONTACT

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Email: OPS.STTC@peostri.army.mil

FUNDING

- Budget activities 1, 2, or 3, are generally appropriate for a BAA.
- FY13 BAA Funding TBD

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- Open White Paper solicitation process - Competitive Competition
- Generally a 3rd quarter White Paper submission is best for funding cycles.



ARL Broad Agency Announcement Topics

Protection

- Materials and Manufacturing Science for Protection
- Vehicle Protection
- Individual Warfighter Protection

Lethality

- Energetic Materials and Propulsion
- Projectiles, Warheads and Scalable Effects
- Materials and Manufacturing Science for Lethality
- Affordable Precision Munitions
- Advanced Weapons Concepts

Human Dimension

- Soldier Sensory-Cognitive Motor Performance
- Neuroergonomics
- Social-Cognitive-Cultural Networks
- Human Robotic Interaction
- Human Systems Integration

Survivability/Lethality Analysis

- Ballistic Vulnerability/Lethality
- Electronic Warfare
- Information Assurance and Computer Network Defense
- Systems of Systems

Networks

- Information Sciences
- Network Sciences
- Battlefield Environment
- Advanced Computing and Computational Sciences

Extramural Basic Research

- Chemistry
- Physics
- Life Sciences
- Network Science
- Environmental Sciences
- Materials Sciences
- Mechanical Sciences
- Mathematics
- Computing Science
- Electronics



Sensors

- RF Technologies
- Electronics Technologies
- EO/IR Technologies
- Non-Imaging Technologies
- Sensor Processing

Power and Energy

- Power Generation and Conversion
- Energy Storage
- Power Control and Distribution
- Thermal Management
- Energy Science

Mobility and Logistics

- Platform Mechanics
- Vehicle Propulsion
- Autonomous Systems
- Reliability

Simulation & Training

- Intelligent Technologies for Training
- Synthetic Environments
- Immersive Learning
- Training Application Environments
- Advanced Distributed Simulation



HBCU/MI Broad Agency Announcement (W911NF-12-R-0009)

Description/Summary of Program Requirements

- Fiscal Year 2012 Department of Defense Research and Education Program for Historically Black Colleges and Universities and Minority-Serving Institution (HBCU/MI)
- The solicitation aims to (a) enhance research programs and capabilities in scientific and engineering disciplines critical to the national security functions ; (b) encourage greater participation by HBCU/MI in DoD research and education programs and activities; (c) increase the number of graduates, including underrepresented minorities, in the fields of science, technology, engineering and mathematics (STEM); and (d) encourage research and educational collaboration with other institutions of higher education..
- **ARL BAA Website <http://www.arl.army.mil/www/default.cfm?page=8>**

ACQUISITION STRATEGY

The Broad Agency Announcement (BAA) is a competitive solicitation procedure used to obtain proposals for basic and applied research and that part of development not related to the development of a specific system or hardware procurement.

PERIOD OF PERFORMANCE

- Base period contracts typically 12-36 months
- Annual BAA

MILESTONES

Date Posted



May 2012

Closing Date



11 July 2012

POINT OF CONTACT

Name: PAO Officer
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FUNDING

- Sub-awards up to 30 percent
- \$150K to \$650K per project
- DoD plans to award up to \$25M Annually

CURRENT CONTRACT/ORIGINAL DEVELOPER/OEM (IF RECOMPETE)

- Open White Paper solicitation process - Competitive Competition
- Generally a 3rd quarter White Paper submission is best for funding cycles.