



USAMRMC and the Medical Technology Enterprise Consortium (MTEC)

UNCLASSIFIED

James B. (JB) Phillips, Ph.D., PMP
Office of the Principal Assistant for Acquisition
U.S. Army Medical Research and Materiel Command (USAMRMC)
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The U.S. Army Medical Research & Materiel Command



MISSION



Responsively and responsibly create, develop, deliver, and sustain medical capabilities for the Warfighter

VISION



Lead the advancement of military medicine



Current Challenges



- Acquisition strategies
 - Contracts
 - Assistance Agreements (grants and cooperative agreements)
 - Cooperative Research and Development Agreements
- Partnering for streamline development
 - Small business & non-traditional defense industry
 - Academic institutions
 - Multi-disciplinary teams
- Private sector funding
 - Available but largely unreachable for Government purposes
 - Cost-share & philanthropy
 - Joint ventures



Other Transaction Authority



- Other Transaction Agreement (OTA) is a funding vehicle used by federal agencies for obtaining or advancing research and development (R&D) or prototypes
- USAMRMC is using a prototype OTA (pOTA)
- An OTA is not a contract or assistance agreement
- OTA is for Small Business and non-traditional contractors but traditional contractors can be funded if certain criteria are met
- Many other DoD offices use the OT Authority



The OTA-Consortium Business Model



- An “**enterprise partnership**” between the Government and a consortium of technology developers/providers in a specific domain where...
 - The “**Government**” partner can be a single sponsor (program executive officer) or multiple sponsors coordinated through a lead agency
 - The “**Consortium**” partner is a group of small and large industry, academic institutions, and non-profit organizations, having competence in the technical domain of interest
- The parties are connected through the pOTA.



MTEC as a Public-Private Collaboration



A **Consortium** of industry, academic, and other organizations organized and operated through a **501(c)(3) non-profit** corporation and an **pOTA**

- Provides a flexible method to combine public and private resources to focus research, **prototype** development, and commercialization on specific shared military and civilian medical technology needs
- Facilitates negotiable and flexible operations, collaborations, and competitive project awards
- Permits streamlined contracting such as lifecycle acquisitions
 - Expedited transition from competitive prototype development into a follow-on non-competitive production contract.



What is a prototype?*



- A preliminary pilot, test, evaluation, demonstration, or agile development activity used to evaluate the technical or manufacturing feasibility or military utility of a particular technology, process, concept, end item, effect, or other discrete feature
- Systems, subsystems, components, materials, methodology, technology, or processes
- A proof of concept; a pilot; a novel application of commercial technologies for defense purposes; a creation, design, development, demonstration of technical or operational utility



Current pOTA Activity - 1



- **Biomanufacturing for Regenerative Medicine**
 - 4 awards in Fall 2016
 - Collaborations with industry, academic and Government performers
 - Total project budgets of approximately \$29M (\$18M Federal investment; \$11M private cost-share)
 - MTEC's solicitation to award timeline was 6 months
- **Brain Machine Interface for Vision Restoration**
 - Awards Feb 2017
 - Two-phase competitive award projects, \$3.5M
 - In-Process Review (IPR) pending



Current pOTA Activity - 2



- Prototype Acceleration Award *
 - Initial 6 awards Sep 2017
 - Covers broad technical areas to jump start technologies for further prototype development; TRL 4 or greater
 - Projects total \$2.9M of which \$1.3M is private cost-share
- Multi-topic Solicitation (similar to a BAA)*
 - Initial announcement Jun-Oct 2017
 - “Commercial Solutions Opening” (CSO)
 - Similar to a Broad Agency Announcement
- Permanent Vascular Repair*
 - Awarded Aug 2017, < 5 months from requirements → solicitation → award
- Combating Antibiotic Resistant Bacteria*
 - White papers Fall 2017



Current pOTA Activity - 3



- Extracorporeal Life Support*
 - Awarded Oct 2017
- Cellular Therapy for the Treatment of Hemorrhagic Shock*
 - Award expected Jan 2018
- Joint Evacuation and Transport Simulation (JETS) Operational Architecture*
 - Award expected Feb 2018
 - Competition used CSO briefings
- Dengue Human Infection Model
 - Awards expected Feb 2018



Current and Upcoming Opportunities - 1



- Drug Treatment for Traumatic Brain Injury
 - Solicitation expected mid-Jan 2018
 - Pre-announcement closed 6 Dec 2018
- Incapacitation Prediction for Readiness in Expeditionary Domains: an Integrated Computational Tool (I-PREDICT)
 - Office of Naval Research
 - Initial solicitation release Dec 2017
- Regenerative Medicine II
 - Pre-announcement expected Feb 2018



Current and Upcoming Opportunities - 2



- I-PREDICT Proposers Webinar
 - January 12, 2018 – 11:00 to 1:00pm
- 3rd Annual MTEC Membership Day
 - April 10 & 11, 2018 – Mayo Clinic, Rochester, MN
- Army Medical Industry Day (tentative, Summer 2018)
 - Coordinated by National Defense Industrial Association (NDIA)
 - Telemedicine, Robotics, Virtual Reality, and Performance Enhancement
 - Dave Chesebrough dchesebrough@NDIA.ORG
 - Tammy Kicker tkicker@NDIA.ORG





Closing – Partnering with USAMRMC



- For additional information contact:

Stacey Lindbergh stacey.lindbergh@ati.org (843) 760-3566

- MTEC Website www.mtec-sc.org
- FedBizOpps <https://www.fbo.gov/>

“Coming together is a beginning. Keeping together is progress.
Working together is success.” – Henry Ford