



“Health Readiness and Performance System (HRAPS) Wearable Physiological Sensor Development”

The Medical Technology Enterprise Consortium (MTEC) is excited to post this **pre-announcement for a Request for Project Proposals (RPP) focused on wearable physiological sensor development**. The overarching goal of this program is to design and evaluate an optimized multifunctional wearable physiological sensor that can quantify thermal work strain, changes in electromyography (EMG) that indicate muscular injury, and neurocognitive changes that suggest compromised cognitive function and predict incipient illness.

Technology Focus Areas

Applications should propose to modify a pre-existing wearable sensor that can meet the minimum set of technical requirements that will be specified in the upcoming RPP.

The proposed work should include testing of the prototype device in the lab as well as in the field, design for manufacturing, manufacturing setup costs, and a first article manufacturing run.

The current effort aims to promote highly innovative, groundbreaking research; high-impact research with near-term clinical relevance; multidisciplinary, synergistic research; and translational studies to support the fluid transfer of knowledge from basic principles to clinical solutions. Proposed projects must be based on logical reasoning and sound scientific rationale. Please note that awards are not to be exploratory in nature and require a foundation of preliminary data.

Potential Funding Availability

The U.S. Government (USG) potentially has available \$2.4 million (M). MTEC anticipates that one award will be made. The Period of Performance (POP)/delivery schedule is not to exceed 24 months. Follow-on work in subsequent years may be awarded to integrate this modified wearable sensor into a suite of wearable sensors, and/or pursue regulatory clearance with the U.S. Food and Drug Administration for utilization of the modified wearable sensor for diagnostic purposes after injury.

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Acquisition Approach

This RPP will be conducted using a two-staged approach. In Stage 1, current MTEC members are invited to submit White Papers using the format contained in the RPP. The Government will evaluate White Papers submitted and will select White Papers that best meet their current technology priorities using the criteria specified in the RPP. Offerors whose technology solution is selected for further consideration based on White Paper evaluation will be invited to submit a proposal in Stage 2. Notification letters will contain specific Stage 2 proposal submission requirements.

Other Information

The MTEC mission is to assist the U.S. Army Medical Research and Materiel Command (USAMRMC) by providing cutting-edge technologies and effective materiel life cycle management to transition medical solutions to industry that protect, treat, and optimize Warfighters' health and performance across the full spectrum of military operations. MTEC is a biomedical technology consortium collaborating with multiple government agencies under a 10-year renewable Other Transaction Agreement (OTA), Agreement No. W81XWH-15-9-0001, with the U.S. Army Medical Research Acquisition Activity (USAMRAA). MTEC is currently recruiting a broad and diverse membership that includes representatives from large businesses, small businesses, "nontraditional" government contractors, academic research institutions and not-for-profit organizations.

MTEC will host a Proposers Conference tentatively scheduled for 1 week after the release of the RPP that will be conducted via webinar. Further instructions will be forthcoming via email after the release of the RPP.

The RPP will be posted to the MTEC website and a notice will be posted on FedBizOpps.gov to notify interested parties. MTEC membership is required for the submission of a white paper in response to this upcoming MTEC RPP. To join MTEC, please visit <http://mtec-sc.org/how-to-join/>

For inquiries regarding this pre-announcement, please direct your correspondence to the following contacts:

- Technical questions – Dr. Lauren Palestrini, MTEC Director of Research, lauren.palestrini@officer.mtec-sc.org
- Administrative questions - Ms. Kathy Zolman, MTEC Program Manager, Kathy.zolman@ati.org
- Membership questions - Ms. Stacey Lindbergh, MTEC Executive Director, execdirect@mtec-sc.org

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Sincerely,
MTEC Project Team

