



Optimizing the Health and Performance of Our Nation's Warfighters

We believe we owe it to our warfighters, our veterans, and their future brothers and sisters in arms to develop and apply technology to preserve their lives, enhance their healing, and return the wounded to fully functioning lives.

We have formed a public-private partnership to advance biomedicine and create amazing new possibilities, such as:

- Providing sight to those who lost their vision and have never seen their children;
- Advancing cell therapies that heal previously irreparable nerve, vascular and organ damage;
- Developing new antibiotics to cure life-threatening infections;
- Providing battlefield diagnostics and therapies to reduce the consequences of Traumatic Brain Injury (TBI) and concussions; and
- Commercializing cutting-edge artificial limbs with greater comfort and functionality in the near term, and, in the longer term, providing limb transplants or regenerative medicine therapies to restore normal functions like walking, grasping and writing.

The U.S. Army Medical Research and Materiel Command (USAMRMC) is leading the way in coordinating and accelerating the development of these technologies for the benefit of our warfighters, veterans, and wider civilian community.

What is MTEC?

The Medical Enterprise Technology Consortium (MTEC) is a new, tax-exempt, nonprofit corporation consisting of industry, academia and nonprofit organizations committed to realizing USAMRMC's vision. MTEC's main focus is to develop medical tools that better manage, treat, and rehabilitate those suffering from traumatic injury on the battlefield. The MTEC Board of Directors is chaired by Major General Lester Martinez-Lopez, MD MPH (Ret.), and is comprised of academic leaders and corporate executives with deep experience in medical technology development. Business and management services are provided by Advanced Technology International (ATI), a nonprofit corporation whose core competency is building and leading complex collaborations. Membership includes the top biomedical R&D organizations from across the nation, and from international organizations

MTEC's initial focus will be the development of technologies that can improve or restore lost vision - the fourth leading result of combat actions - and on regenerative technology for tissue destroyed by trauma and burns.

A Devastating Decade for Soldiers and Veterans

In the wake of the Iraq and Afghanistan conflicts, **625,000** veterans filed for physical and mental disability claims.

32,000 men and women were wounded in action.

4,000 soldiers have blast-related penetrating eye injuries.

1,700 lost at least one limb.

8,000 suffer from severe brain injury.

MTEC's Technology Focus Areas

- Prevention, diagnosis, and treatment of infectious diseases;
- Care of combat casualties;
- Support for military operational medicine;
- Support for clinical and rehabilitative medicine;
- Support for medical training and health information science; and
- Prevention, diagnosis, and treatment of disease and injury from chemical and biological agents and radiation.

MTEC is different. Other non-profit organizations are doing wonderful work in providing a means for wounded warriors to cope with their functional losses, but MTEC is working purposefully to treat these injuries in a way that makes the wounded whole again.

MTEC is goal-oriented. The focus is on building teams to solving problems and getting technologies to those in need. Research priorities are purposeful and outcomes-driven. The reach of the team ensures that research outcomes and new technologies will be applied across the entire medical infrastructure for the benefit of all citizens.

MTEC cuts through red tape. MTEC operates under an Other Transaction Agreement partnership model. This model relieves some of the contractual burdens typically associated with federally-funded research, which allows the government to acquire new technology and prototypes more quickly. Organizations that deliver positive outcomes may be eligible to receive additional funding for work toward FDA approval and manufacturing without the need to repeat the proposal cycle.

MTEC has a wide resource aperture. While the initial funds creating MTEC come from the Department of Defense, over the long term, all sources of government and private sector resources can be allocated to these research and technology initiatives. This will widen the scope and scale of solution providers involved in military and civilian trauma needs.

MTEC is efficient. ATI's experience leading technology-based collaborations has created a broad-reaching national network of pre-existing business relationships, a rapid ramp-up capability based upon significant first-hand experience with sophisticated public-private partnerships, and a deep reservoir of earned trust and respect through years of capable program execution in support of public and private industry research sponsors.

MTEC is open and comprehensive. MTEC boasts a nationally-dispersed membership from industry, academia and the nonprofit sector. Open membership policies and low barriers to entry enable MTEC to add new members. With broad insight into research activities that otherwise would be conducted in silos, MTEC can foster integrated research partnerships and speed the availability of solutions to the military, veterans the civilian population.

MTEC employs blended funding streams. Initial operating funds for MTEC and research award funds are being provided by USAMRMC. Within two years, MTEC's operations will be sustained through consortium membership fees, project award fees for necessary contracting and support services, and private and corporate philanthropy. Funds for research projects will flow from USAMRMC, other Federal agencies, corporate partnerships, venture capital, and private philanthropy.

For information and assistance with making a donation or forming a partnership with MTEC, please contact:

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The Potential Impact of MTEC

Severe burns are the most common cause of significant skin loss. Burn injuries can be extremely painful, debilitating, and complex to treat. In the worst-case scenario, the unavailability of suitable treatments results in death, and at best, it leaves numerous veterans with severe scars and contracture, often limiting function.

The field of regenerative medicine has tackled this unmet clinical need by developing skin substitutes for treating severe burns. These skin substitutes not only may save lives, but also offer the potential for improved aesthetic outcomes, such as reduced scarring and restored functionality.

MTEC's mission is to accelerate these life-saving and life-changing products into the clinic by serving as an engine for translation that provides funding for research, development, and clinical testing.

www.mtec-sc.org