



Innovation Partnering Opportunities





An Innovation Ecosystem in Support of Military Medicine

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF) is a global, nonprofit organization authorized by the U.S. Congress to advance military medicine, which focuses on the challenges faced by warfighters, veterans, and their families. Since 1983, HJF has provided scientific, administrative and management expertise to empower investigators and clinicians at the Uniformed Services University of the Health Sciences (USU) and throughout the military medical community. HJF works to promote military-civilian interchange, support USU, and advance all Department of Defense (DoD) research efforts for the mutual benefit of military and civilian medicine. Through its subsidiaries, HJF Medical Research International (HJFMRI), HJFMRI LTD-GTE, and CAMRIS International, LLC, HJF also advances medical research and improves global health to benefit our customers and communities worldwide. HJF is committed to serve as a vital link between the military medical community and our federal and private partners.

HJF applies its scientific, administrative, technology transfer, and research management capabilities in partnership with military medical research laboratories, clinics, and centers conducting research and development activities across a broad spectrum of research areas — from traumatic brain injury and combat casualty care to oncology and infectious disease. The innovations and discoveries resulting from this work have the potential to significantly advance both military and civilian medicine alike.

HJF seeks to increase the impact of these research outcomes through formal partnerships focused on the development and commercialization of military medical innovations. HJF's Innovation Ecosystem is a partnership framework that connects DoD medical research, life science companies, local and regional entrepreneurial communities, private investors, and regional economic development entities, all in support of the advanced development and commercialization of medical innovations. HJF acts as the integrator at the center of the ecosystem, connecting the appropriate stakeholders from these diverse sectors with the capabilities necessary to move identified innovations forward commensurate with their stage of development and funding requirements. The Innovation Ecosystem enables HJF to provide enhanced capabilities and support to its various programs and centers, across the continuum of military medical innovation, from conception to commercialization.

The HJF Innovation Ecosystem will include:

- An Innovation Advisory Committee composed of thought leaders within the ecosystem with interest and expertise in the successful translation and transition of life science innovations into military and private sector use.
- Event convening to foster partnerships within the ecosystem that support education, research, and technology commercialization at USU, as well as throughout the military medicine community.
- Innovation Space for startups and small businesses developing military-relevant products and services.
- Translational Research Programs to support commercialization of technologies vetted by the Innovation Advisory Committee.

Henry M. Jackson Foundation for the Advancement of Military Medicine

We partner with government, academia and private industry to advance military medicine.



Military Medicine:

Medical specialty that focuses on the problems and needs of warfighters, veterans and their families.



Our services:

- Proposal Development
- Research Administration
- Program Operations
- Regulatory Compliance
- Technology Transfer
- Staffing, and more.

More than
13,850+
awards managed



HJF is a global nonprofit with 40 years of experience managing preeminent scientific programs that benefit service members and civilians alike.



Our locations*:

Australia, Cambodia, Germany, Ghana, Jordan, Kenya, Madagascar, Malaysia, Mozambique, Nigeria, Peru, Philippines, South Africa, Tanzania, Thailand, Uganda, and United States

*includes HJF subcontractors

1,283
active research
protocols



HJF, congressionally authorized in 1983, advances military medicine. HJF serves as a connective tissue between the military medical community and its partners.



Nearly
3,000
employees



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About HJF

Services

Secure Research Funding

HJF empowers you with the resources you need to secure research funding. We drive change—while removing barriers to success. HJF makes it easier to find upcoming funding opportunities from various sponsors, most relevant to military medical researchers.

Develop Your Proposal

Our experts provide all stages of proposal development, from analyzing requests for proposals (RFPs) to submitting outstanding grant, cooperative agreement and contract applications. Our experts have you covered through the proposal lifecycle because we've worked with military and federal principal investigators in identifying and responding to funding opportunities for more than three decades.

Build Your Team

HJF has the know-how to recruit and staff your research team with top talent. We staff scientific, management and administrative teams for research awards across the U.S. and around the world. HJF takes care of recruiting, hiring and managing hard-to-find specialists including diverse global talent with the J-1 Exchange Visitor Program and the H-1B employment-based program.

Manage Your Research

HJF has managed thousands of research awards for 40 years. We help you with compliance, financial reporting, procurement, and all areas of research administration. We have perfected our scientific management—so you can focus on the research. Our wide array of multi-site and international research and program management services includes everything from budgets to staffing to special equipment purchasing.

Market Your Technology

HJF facilitates collaboration between investigators and private industry partners worldwide to make innovative medical technologies available for clinical use and to take leading edge products to market. Our technology transfer experts assist you in creating translating research strategies, executing collaboration and licensing agreements, protecting and managing intellectual property, and establishing agreements for the exchange of information materials and data across institutions and organizations.

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF) and its HJFMRI and CAMRIS subsidiaries support military medical research around the world, spanning five continents. We have implemented solutions that are tailored to the needs of our customers and their research mission and we are adept at taking into account the local situation.

Authorized by the U.S. Congress, HJF works to promote military-civilian interchange, support the Uniformed Services University of the Health Sciences (USU) and advance all Department of Defense (DoD) research efforts for the mutual benefit of military and civilian medicine.

From program management to laboratory research, our thorough scientific, administrative and program management services empower researchers and clinicians with the resources they need to find answers and drive change, while removing barriers to success.



Combat Casualty Care

The crucible of war yields hard lessons on combat and incredible discoveries in military medicine. Several HJF-supported programs are at the center of such advances. For instance, our supported programs study the complexities of polytrauma, testing and evaluating methods for resuscitation and hemorrhage control, and increasing the understanding of tissue regeneration.

Programs

Uniformed Services University of the Health Sciences

HJF supports a number of Uniformed Services University of the Health Sciences' (USU's) programs and missions, including:

- Scientific, technical, administrative and program support for traumatic tissue injury and regeneration research: HJF supports an explosive blast extremity amputation model to investigate tissue remodeling after traumatic events. The development of heterotopic ossification is then evaluated and biomarkers from the model are compared to biomarkers from samples taken from wounded service members being treated at Walter Reed National Military Medical Center (WRNMMC).
- Stem cell research: investigators are trying to validate models of heterotopic ossification so the condition can be studied further and possible treatments developed. To further investigate the mechanisms, HJF helps with stem cell research and scaffold development by providing complementary bedside-to-bench and bench-to-bedside strategies. Once the pathway that causes heterotopic ossification can be completely understood, investigators may be able to reduce the occurrence of the condition, as well as improve fracture and critical-sized defect healing.

Naval Medical Research Unit – San Antonio

The mission of the Naval Medical Research Unit – San Antonio is to conduct medical, craniofacial and directed energy biomedical research, which focuses on ways to enhance the health, safety, performance and operational readiness of Navy and Marine Corps personnel and address their emergent medical and oral or facial problems in routine and combat operations. HJF provides scientific, technical, administrative, management and programmatic support for research at their Veterinarian Science Department, as well as their Combat Casualty Care and Operational Medicine (CCC & OM) Directorate. HJF's efforts ensure continued productive and successful research in a multitude of areas, including:

- Protection, resuscitation and stabilization of combat casualties
- Hemorrhagic shock drugs, products and advanced therapies
- Therapeutic and diagnostic assays and devices intended to improve standards of care for service members
- Detection of microbial agents
- Wound-healing biomarker discovery and assay development
- Animal model development and veterinary science

Naval Medical Research Center

The Naval Medical Research Center (NMRC) Operational Undersea Medicine Directorate (OUMD) focuses on issues related to emergent combat injuries, mainly blast-induced TBI, the importance of which has been spotlighted through Operation Iraqi Freedom and Operation Enduring Freedom because of the increased use of improvised explosive devices (IEDs). OUMD's research efforts include the study of blast biophysics, pathophysiological responses to blast, neurocognitive and behavioral consequences of blast exposure, and treatment for blast injuries. HJF's support of NMRC is largely centered around two departments, the Regenerative Medicine Department and the Neurotrauma Department:

- NMRC's Regenerative Medicine Department maintains research efforts in composite tissue transplantation, stem cell biology and translational medicine. HJF scientists and research support staff investigate wound healing, including prevention of heterotopic ossification and development of next-generation osseointegration techniques for the rehabilitation of amputees. Together, the team is advancing advanced diagnostics and treatment protocols to enhance overall outcomes for those with combat wounds by identifying the protein and gene expression patterns involved in wound healing.
- NMRC's Neurotrauma Department works to develop novel strategies to prevent and treat combat casualties with particular attention given to early, far-forward interventions. The Polytrauma Program studies traumatic brain injury (TBI) alone or in combination with hemorrhage or other injuries. HJF provides programmatic and scientific personnel to support the Neurotrauma Department's important work.

David Grant Air Force Medical Center

The David Grant Air Force Medical Center (DGAFCM) receives HJF support on a number of its casualty care initiatives, specifically those supporting hemorrhage control. One particular initiative—resuscitative endovascular balloon occlusion of the aorta (REBOA)—offers the greatest potential to change current resuscitative practices for casualties in recent conflicts. HJF supports a randomized trial that compares complete REBOA to endovascular variable aortic control (EVAC, also known as controlled titrated occlusion) in a swine model of polytrauma.



Infectious Disease

Infectious disease remains one of the greatest threats to mission capacity and operational readiness of U.S. military forces. Service members are routinely exposed to infectious pathogens transmitted through vector, vehicle and contact. Infectious disease can also impact international stability by weakening economies, military and police forces, and government and social institutions. HJF and its international affiliates collaborate with a variety of partners on research to develop novel countermeasures for the detection, prevention and treatment of infectious disease. We execute a diverse biomedical research portfolio at civilian and military treatment facilities and laboratories worldwide while facilitating collaborations with academic and industry partners. From vaccine development to surveillance and epidemiology, HJF has become a key partner in driving infectious disease research success by promoting public-private partnerships and providing solutions to help DoD programs strengthen and diversify their research portfolios.

Programs

Military Malaria Research Program

HJF provides technical, programmatic and administrative support for the Military Malaria Research Program (MMRP) at WRAIR, promoting research collaborations for both malaria vaccines and malaria experimental therapeutics.

Austere environments Consortium for Enhanced Sepsis Outcomes

Military personnel are at particular risk of sepsis when deployed to austere regions with limited resources. The Austere environments Consortium for Enhanced Sepsis Outcomes (ACESO) aims to improve the survival rate for patients with sepsis through early recognition, diagnosis and evidence-based clinical management. HJF partners with the Navy to provide clinical and scientific expertise and programmatic and coordination support for ACESO.

Joint West African Research Group

The Joint West African Research Group (JWARG) aims to build and strengthen infectious disease laboratory and clinical research capabilities in West Africa and contribute to the development of effective infectious disease countermeasures including diagnostics, therapeutics and vaccines. JWARG is a collaboration among government, military, academic, and non-governmental organizations in the U.S. and Africa, led by ACESO, EIDB, Walter Reed Program – Nigeria and NMRC's Naval Medical Research Unit #3 Ghana Detachment.

U.S. Military HIV Research Program

Since partnering with HJF in 1986, the U.S. Military HIV Research Program (MHRP) at the Walter Reed Army Institute of Research has become a world leader in HIV research, including vaccine studies, threat assessment, epidemiology, diagnostics, and cure research. Together, MHRP and HJF scientists and researchers work side by side to conduct basic, innovative, preclinical and clinical HIV research. MHRP and HJF also engage in strategic partnerships with key research institutions, host countries, and other public and private organizations to develop an international network of clinical sites located in Africa and Asia as well

as in the United States. The established international clinical research infrastructure of MHRP allows for rapid response to evolving military threats posed by emerging pathogens, including recent support to help develop vaccines for Ebola, Zika and MERS. Several of our research sites also have robust PEPFAR-sponsored research programs, which aim to improve outcomes for HIV prevention and treatment services.

Infectious Disease Surveillance at the U.S. Army Medical Research Directorate – Kenya

The U.S. Army Medical Research Directorate – Kenya (USAMRD-K) enlists HJF's help to conduct bench science, surveillance and testing of infectious disease medical countermeasures and diagnostics. HJF supports surveillance on emerging and re-emerging infectious diseases including HIV/AIDS, avian and pandemic influenza, and arboviral and antimicrobial-resistant infections. HJF works with USAMRD-K in Kenya, Tanzania and Uganda, facilitating partnerships with a wide range of important stakeholders in each country.

Centers for Disease Control and Prevention

The U.S. Centers for Disease Control and Prevention (CDC) partners with HJF on their projects in global health security, laboratory capability and capacity building, and infectious disease research at the Kenya Medical Research Institute, as well as other national and international partners in global health. HJF provides medical research services, personnel and resources for the CDC's programs in sub-Saharan Africa.

Emerging Infectious Diseases Branch

In 2018, the Walter Reed Army Institute of Research (WRAIR) formally created the Emerging Infectious Diseases Branch (EIDB) with an explicit mission to survey, anticipate and counter the mounting threat of emerging infectious diseases of key importance to U.S. forces in the homeland and abroad. With HJF support, EIDB is leading the Army's efforts to develop countermeasures against COVID-19 including a vaccine, and monoclonal antibody and epidemiology research.



Cancer

Cancer researchers continually seek better diagnostics, improved patient care and new preventative vaccines to reduce the prevalence and impact of cancer. HJF proudly supports this important work through our partnerships with the John P. Murtha Cancer Center (MCC), a DoD Center for Excellence located at Walter Reed National Military Medical Center (WRNMMC) in Bethesda, Maryland, as well as MCC's Military Cancer Clinical Trials Network, which comprises research programs at medical treatment facilities across the country. As a patient-centric military health care center, MCC provides a holistic approach to treating cancer, including multidisciplinary care, patient-family support services and translational research to facilitate access to evidence-based clinical practices and high-priority clinical trials. By coordinating national and international collaborations between military and civilian scientists and physicians, HJF helps facilitate MMC's research and advance cancer treatments.

Programs

Clinical Breast Care Project and the Breast Cancer Translational Research Center of Excellence

The Clinical Breast Care Project (CBCP) launched in 2000 with the mission to lead innovative research to eventually eradicate breast cancer. Acquired by MCC in 2012, CBCP is now part of MCC's Breast Cancer Translational Research Center, which achieved designation by the Office of the Assistant Secretary of Defense for Health Affairs as a DoD Center of Excellence. Today, the Breast Cancer Translational Research Center houses the largest biorepository of high-quality human breast specimens. The center studies biomarkers in archival breast cancer tissue and collaborates with organizations and programs such as the National Cancer Institute's Genome Atlas.

Located at WRNMMC in Bethesda, Maryland, the Breast Cancer Translational Center is a public-private partnership among HJF, Winder Research Institute (WRI) in Pennsylvania and WRNMMC.

Gynecologic Cancer Translational Research Center of Excellence

The Gynecologic Cancer Translational Research Center (GYNTRC) of Excellence is a joint program at WRNMMC and the Women's Health Integrated Research Center (WHIRC) at Inova Health System in Northern Virginia. GYNTRC comprises several different research programs, including early detection, molecular profiling, and prevention and development of novel therapeutics. These programs employ a diverse, interdisciplinary group of investigators pursuing mission-oriented translational research guided by a clinically-focused need to improve delivery of gynecologic care.

HJF collaborates with these institutions each with extensive experience and interest in gynecologic cancer. Together, the GYNTRC team works on developing state-of-the-art capability in clinical and basic science, as well as translational research to improve screening, early detection and treatment of gynecologic cancer for both military health beneficiaries and civilians.

Center for Prostate Disease Research or Prostate Center of Excellence

In 2017, the Center for Prostate Disease Research (CPDR), also known as the Prostate Center of Excellence, celebrated 25 years of service and research on behalf of military health care beneficiaries. A partnership between HJF and the Uniformed Services University of the Health Sciences, CPDR was created to battle prostate cancer's increasing occurrence among service members and their beneficiaries by developing refined detection techniques and promising treatments. Using a multidisciplinary strategy, CPDR studies various behavioral, psychosocial and quality-of-life issues related to prostate cancer.

Located at WRNMMC in Bethesda, Maryland, CPDR is recognized as one of the world's premier prostate patient care and research centers, home to one of the largest and most comprehensive prostate cancer databases in the U.S.



Chemical, Biological & Radiological Defense

A vital element to national security, chemical, biological and radiological defense focuses on improving early detection, preventing health consequences, and protecting the health of our armed forces and civilian population. Findings from this research are transitioned to multiple federal agencies to be integrated into their biodefense capabilities and acquisition strategies for advanced development.

Programs

Naval Medical Research Center, Biological Defense Research Directorate

The Naval Medical Research Center's (NMRC's) Biological Defense Research Directorate (BDRD) focuses on biological research and field/lab detection of infectious disease. BDRD provides biodefense and global surveillance with the assistance of HJF staff who work side by side with Navy researchers on this work, which is conducted at Fort Detrick, Maryland.

The aims of this collaboration are to develop and evaluate state-of-the-art technologies using molecular and immunological tools to help protect civilian and military populations in the event of a biological terrorism incident, and also to develop the basic scientific understanding required to improve therapies and biological defense preparedness against infectious diseases of global health concern. The pairing of the expertise of these two institutions provides DoD with increased capabilities and provides many reagents that otherwise would not have been available for biological research.

Armed Forces Radiobiology Research Institute

The Armed Forces Radiobiology Research Institute (AFRRI), a part of the Uniformed Services University (USU), aims to preserve the health and performance of U.S. military personnel and to protect humankind through research that advances understanding of the effects of ionizing radiation. The institute also provides medical training and emergency response to manage incidents related to radiation exposure.

HJF supports AFRRI's research and development mission and helps:

- Develop methods of rapidly assessing radiation exposure to assure timely, appropriate medical treatment.
- Pursue research into new drugs that will prevent the life-threatening and health-degrading effects of ionizing radiation, and move those drugs from discovery through the U.S. Food and Drug Administration approval process
- Investigate the effects of radiation injury combined with other challenges such as trauma, disease and chemical exposures.

Biotechnology High Performance Computing Software Application Institute

While military researchers work to discover mitigation techniques and vaccine alternatives for biological threats, behind-the-scenes technology is being developed to enable those scientists to perform their work faster and with greater certainty. Innovative computer technologies play an ever-increasing role in scientific discovery and protecting both our service members and civilians against biological exposure.

The U.S. Army Medical Research and Materiel Command established the Biotechnology High Performance Computing Software Application Institute (BHSI) to develop software applications that support DoD's biotechnology research and enhance the ability of the biological defense community to respond to new biological threats. HJF provides BHSI with a variety of scientific, technical, and administrative support services.

Department of Epidemiology and Threat Assessment within the U.S. Military HIV Research Program

The threat assessment studies of HIV, bloodborne infections and STIs among U.S. and foreign military personnel help ensure the safety of the battlefield blood supply and reduce the risk of exposure to infectious diseases in the military. With help from HJF, the Department of Epidemiology and Threat Assessment (DETA) conducts highly effective studies that facilitate identification of targets for preventative interventions and inform clinical decision-making and countermeasure policy development.



International Capabilities

Global Emerging Infections Surveillance

With assistance from HJF, the U.S. Army Medical Research Unit-Kenya conducts bench science, surveillance and testing of infectious disease medical countermeasures and diagnostics in Kenya and in several other countries on the continent. HJF assists in research on HIV/AIDS, avian influenza, pandemic influenza, arboviral infections, and antimicrobial-resistant infections.

Austere environments Consortium for Enhanced Sepsis Outcomes

HJF assists the Naval Medical Research Center's efforts of the Austere environments Consortium for Enhanced Sepsis Outcomes (ACESO), which aims at improving survival for patients with sepsis—a systemic inflammatory syndrome that can occur in response to an infection and, if it progresses into severe sepsis or septic shock, can lead to life-threatening decreases in blood pressure and organ failure. Military personnel are at particular risk of sepsis when deployed to austere regions with limited resources. The consortium identifies host response-based markers that can predict whether a patient will have a severe clinical course or differentiate patients with a bacterial infection from patients with a viral infection.

Centers for Disease Control and Prevention

HJF and HJFMRI support the U.S. Centers for Disease Control and Prevention (CDC) with the Conduct of Public Health Research in Kenya for influenza, tuberculosis and HIV research programs.

HJFMRI also supports many high priority projects, such as HIV Prevention Trials Network (HPTN), AIDS Clinical Trials Group (ACTG), malaria vaccine research, tuberculosis, and Microbicides Trials Network (MTN). HJFMRI also supports many worldwide guest sponsors and prime contract collaborative partner projects at KEMRI that include the Bill & Melinda Gates Foundation, GlaxoSmithKline, Emory University, and more.

Infectious Disease Clinical Research Program

HJF supports the Infectious Disease Clinical Research Program (IDCRP) in observational and interventional studies of emerging infectious diseases, such as Ebola and other causes of viral hemorrhagic fever.

In response to the 2019 Ebola outbreak, IDCRP investigators collaborated with the National Institute of Allergy and Infectious Diseases to make investigational products for Ebola treatment and post-exposure prophylaxis available to U.S. service members through a joint research program. The program developed an observational, longitudinal study to evaluate the epidemiology, immunology and clinical characteristics of service members who have been exposed or infected by Ebola during deployment.

Armed Forces Research Institute of Medical Sciences

The Bangkok institute, known as Armed Forces Research Institute of Medical Sciences (AFRIMS), is a Special Foreign Activity component of the Walter Reed Army Institute of Research, hosted by the Royal Thai Army and staffed by American and Thai personnel. For more than 50 years, the institute has been the premier platform for the study of infectious diseases of military importance in the Asia-Pacific region.

HJF has been a long-standing partner to AFRIMS and a key contributor to a highly integrated group of U.S. military and Thai researchers in the studies of enteric diseases, viral diseases (dengue), as well as epidemiology and surveillance of emerging infectious diseases.

Global Presence

Our international research expertise will make your project a success anywhere in the world.



*does not include CAMRIS or Topsail subsidiaries.



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