

# Human Performance

## 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 more than 35 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

## About HJF

The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc. (HJF) is a global, nonprofit organization created to accelerate progress in military medicine. 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.

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.

Physical and cognitive performance | Aeromedical research | Inhaled toxins | Physical and cognitive performance  
Disorientation, fatigue, sleep, hypoxia and vision research | Pharmacokinetic Testing



*Advancing Military Medicine*

6720A Rockledge Drive | Suite 100 | Bethesda, MD 20817 P: 240-694-2000 | F: 240-694-3100  
Strategic Initiatives – Business Development P: 240-694-4001 | E: [businessdevelopment@hjfmilmed.org](mailto:businessdevelopment@hjfmilmed.org)

[hjfmilmed.org](http://hjfmilmed.org)




@HJFMilMed



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Military researchers work diligently to ensure a fit and ready defense force, focusing on all aspects of human performance, including physical fitness, nutrition and other factors that influence service member job performance. HJF works on a number of human performance optimization efforts designed to support and prepare our military forces.

## Programs

### 711th Human Performance Wing / Human Effectiveness Directorate

The 711th Human Performance Wing / Human Effectiveness Directorate (711 HPW/RH), part of the Bioservices and Protection Division at Wright-Patterson Air Force Base near Dayton, Ohio, conducts scientific research to protect service members from a broad spectrum of chemical, biological and physical stressors, as well as research focused on physical and cognitive performance. The 711 HPW/RH team collaborates with HJF and the Naval Medical Research Unit – Dayton (NAMRU-D) to cover a number of integrated human performance challenges and solutions for fields like toxicology (e.g., jet fuel toxicity, neurological toxic impacts and physiologically-based pharmacokinetic testing), physiology (e.g., motion sickness, spatial awareness and environmental stress), and cognition (e.g., recovery after hypoxia, fatigue effects and over-the-counter stimulants).

Through our innovative research and support infrastructure, as well as collaboration with program leadership, scientists and principal investigators, HJF helps 711 HPW/RH meet its mission requirements by providing financial and budgetary management, technical staffing, logistics support and programmatic services.

### Naval Medical Research Unit – Dayton

The Naval Medical Research Unit – Dayton (NAMRU-D) investigates aeromedical and environmental factors to maximize service member performance and survivability. HJF provides NAMRU-D with contract staff members who support all research efforts by developing and implementing key research plans throughout the portfolio, which is centered around two programs, the Environmental Health Effects Directorate and the Aeromedical Directorate:

- NAMRU-D's Environmental Health Effects Directorate examines the toxicity of chemicals and materials used in military operations to determine if they have any detrimental impact on military and civilian populations. HJF supports the Environmental Health Directorate's efforts to assess various jet fuels using NAMRU-D's expertise in evaluating inhaled toxins.
- NAMRU-D's Aeromedical Directorate conducts basic and applied research to enhance health, safety, performance and readiness with specific focus on disorientation, fatigue, sleep, hypoxia, and vision. HJF assists with the Aeromedical Directorate's research on their human-rated motion platforms, especially "The Kraken" Disorientation Research Device.

### Consortium for Health and Military Performance

The Consortium for Health and Military Performance (CHAMP), located at USU, is the DoD Center for Excellence for integration, translation and education for all topics related to human performance optimization and total force fitness. CHAMP performs translational research for military operational applications, advises on practical service member concerns and develops DoD policy to help prepare and protect our military forces.

### Human Performance Resource Center

The Human Performance Resource Center (HPRC), CHAMP's educational arm, is an online resource with evidence-based information regarding all aspects of service member health, including how to achieve optimal performance on the battlefield and at home. With experts offering guidance on injury prevention, heat safety, deployment stages, stress management and more, HPRC provides information on a combination of approaches and techniques to help service members perform their best and carry out their duties safely and effectively. HPRC also launched the Operation Supplement Safety (OSS) mobile app to educate service members and veterans, their family members, leaders, healthcare providers, and DoD clinicians about the safe use of dietary supplements.

### National Capital Area Val G. Hemming Medical Simulation Center

The USU's National Capital Area Val G. Hemming Medical Simulation Center (Sim Center), located in Silver Spring, Maryland, is one of the largest, most advanced simulation centers in the world. Over the past three decades, simulation technology has steadily become a central part of health science curricula worldwide. As the only facility in the nation to offer every facet of healthcare simulation under one roof, Uniformed Services University's Sim Center is among the major trailblazers in simulation technology research, testing and development. Simulations allow healthcare providers to develop and maintain the cognitive and psychomotor skills necessary to learn and perform medical tasks safely and effectively. Medical students at USU participate in nearly 40 different simulation exercises at the Sim Center before they graduate.