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Postdoctoral Fellow - Medicine

Job Category: Programs

Requisition Number: POSTD02524

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Posted: October 26, 2021

Full-Time

Bethesda, MD 20814, USA

Job Details

Description

Join the HJF Team!

HJF is seeking a **Postdoctoral Fellow** to support the Department of Medicine located at the Uniformed Services University (USU) in Bethesda, MD. HJF provides scientific, technical and programmatic support services to Department of Medicine.

The incumbent is responsible for assisting with, initiating, and carrying out preclinical research protocols of traumatic injury in collaboration with a research team. Pursuits research along a focused line of inquiry and has a manuscript in development. Candidate will be responsible for examining the metabolic aberrations due to trauma, to potentially include studying alterations in the host microbiome, as well as the phenotypic shift in mitochondrial function of ischemic tissues. Incumbent will be expected to disseminate interpretations from these experiments to the scientific community in the form of conference presentations and manuscript preparation and publication.

Dr. David Burmeister's laboratory research focuses on the pathophysiological responses to various types of military-relevant trauma using large animal models. Specifically, the mechanistic basis of multi-organ dysfunction after insults such as thermal burns, radiation exposure, or hemorrhagic shock is studied, with focus on the interaction of the microbiome and host inflammation. Additionally, downstream effects on tissue metabolic status will be a key focus area for the candidate, with

responsibility for assessing mitochondrial function from various dysfunctional organs such as the kidney. The postdoctoral fellow will be involved with the entire gamut of the protocol, from performance of in vivo procedures, to processing and analyzing tissues, to interpretation/presentation/publication of results.

NOTE: As a U.S. Government contractor, all HJF employees are required to be fully vaccinated against COVID-19 by December 8, 2021. Proof of vaccination or an approved religious or medical accommodation will be required.

Responsibilities:

1. Assists in designing, developing, executing, and implementing animal protocols to include adherence to all regulatory and reporting requirements (IACUC) in support of the Principal Investigator. (40%)
2. Investigates the feasibility of applying a wide variety of scientific principles and theories to potential inventions and products. Monitor, review and summarize safety and efficacy data for ongoing studies; represent exploratory development on project teams; develop relationships with appropriate consultants; serve as a liaison between primary investigator, grantors, and regulatory offices (15%)
3. Performs specialized laboratory research utilizing experimental protocols which involves specialized procedures to include ELISA assays, western blotting, and RT-PCR, as well as clinical assays of biochemical, coagulation and complete blood count readouts. (20%)
4. Collects and handles samples and keeps detailed records of experiments. The incumbent will prepare for and conduct qualification, study initiation, interim monitoring, and work with Principal Investigator to ensure that visit metrics are maintained as required (10%)
5. Assists with the preparation of data for presentations at University research seminars, oral and poster presentations at scientific meetings, and for publication in journals. (15%)
6. May perform other duties and responsibilities as assigned or directed by the supervisor. This may include attendance of and participation in required training for role.

Required Knowledge, Skills and Abilities: Knowledge of appropriate scientific area; ability to analyze and interpret data. Qualified candidates must be highly motivated, independent individuals with exceptional laboratory and written communication skills with the ability to work both independently and cooperatively within a team. Experience with large animal models, trauma modelling, and/or assessments of kidney function preferred. Experience with molecular biological techniques, and/or primary tissue culture are essential. Individuals with experience in large animal instrumentation, flow cytometry, histology and knowledge of immunology or upper urinary tract physiology are highly encouraged to apply.

Minimum Education: Doctoral degree required in the fields of physiology, immunology, cell biology, biochemistry or a related field.

Minimum Experience/ Training Requirements: Minimum 0-5 years of relevant work experience.

Work Environment: Set in a laboratory environment.

Work Arrangement: 100% on-site.

Background/Security: Eligibility to obtain and maintain a Tier I investigation/Public Trust and a Common Access Card (CAC).

Employment with HJF is contingent upon successful completion of a background check, which may include, but is not limited to, contacting your professional references, verification of previous employment, addresses, education, and credentials, a criminal background check, drug screening, and a department of motor vehicle (DMV) check.

Any qualifications to be considered as equivalents, in lieu of stated minimums, require the prior approval of the Chief Human Resources Officer.

Qualifications

Education

Required

Doctorate (Professional) or better.

Experience

Required

Less than 5 years: Minimum 0-5 years of relevant work experience.

Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities

The contractor will not discharge or in any other manner discriminate against employees or applicants because they have inquired about, discussed, or disclosed their own pay or the pay of another employee or applicant. However, employees who have access to the compensation information of other employees or applicants as a part of their essential job functions cannot disclose the pay of other employees or applicants to individuals who do not otherwise have access to compensation information, unless the disclosure is (a) in response to a formal complaint or charge, (b) in furtherance of an investigation, proceeding, hearing, or action, including an investigation conducted by the employer, or (c) consistent with the contractor's legal duty to furnish information. 41 CFR 60-1.35(c)

Advancing Military Medicine