



**Position Title:** Jr. Scientist I- Trauma Infection Research (TIR)  
**Work Location:** Walter Reed Army Institute of Research, US-MD-Silver Spring  
**Group:**  
**Type:** Full Time  
**Hours/Week:** 40  
**Job ID:** 2022-2512  
**Min Clearance:** NACI  
**Date Approved:** 07/28/2022

**Position Summary:**

Odyssey Systems is currently looking for a Jr. Scientist I to join a dynamic and growing team at the Walter Reed Army Institute of Research (WRAIR) Wound Infection Department (WID). WID is tasked with delivering specific, effective countermeasures for infection of combat wounds pre-injury, point-of-injury, and post-injury. The Trauma Infection Research (TIR) group focuses on trauma physiology and related microbial pathogens of military relevance. Studies include simulations of combat wound injuries in small animal models with emphasis on immunopathogenesis.

**Responsibilities:**

Duties include, but not limited to:

- Conduct studies to develop invasive mucormycosis animal model as a testing platform for novel treatments
- Develop assay to isolate Mucorales spores in quantities that are sufficient for infection development
- Develop qPT-PCR to detect hyphal forms in tissues
- Perform animal surgical techniques and rodent handling including anesthesia, euthanasia, blood and other tissue collection, bacterial infections.
- Perform sc, ip and iv injections of therapeutics
- May perform/assist with studies related to trauma-related bacterial infections, including but not limited to bacterial culture, biofilm formation assay, antibiotic sensitivity test, in vitro antimicrobial tests.
- Conduct/assist with immunological/physiological tests including cytokine/chemokine assessment, immune cell analysis and evaluation of healing.
- Keep accurate and complete records of research done in accordance with applicable standards.
- Submit reports and data summaries as requested and prepare research results for presentation and publication in the scientific literature.
- Participate on proposal writing projects when requested.
- Provide all job-related progress reports/technical reports as requested.

- Maintain a safe workplace ensuring that he/she is aware of and observes appropriate safety and occupational health rules and regulations.
- Performs light duties and other related duties as required and assigned.

### **Qualifications:**

#### **Minimum Required Qualifications:**

Citizenship: Must be a US citizen or Green Card holder and lived in the U.S. three out of the last five years.

Clearance: NACI

Education: Ph.D. in appropriate discipline (e.g., microbiology, molecular biology and animal models) with 1-2 years' experience in Invasive Mold Infections such as mucormycosis, aspergillosis, fusariosis, etc OR Master's Degree with 3+ years of similar experience preferred.

Experience:

- Experience with fungal research, specifically invasive molds such as Mucorales, Aspergillus, Fusarium etc, is required.
- Experience with microbiology of Gram-negative negative species and antibacterial development is a plus.
- Proficiency in basic laboratory techniques and mathematics skills
- Must have ability to perform work at a high level of accuracy and maintain detailed records of research.
- Strong computer skills and experience with relevant software including MS Office, GraphPad Prism and molecular biology software.
- Must be able to work independently.
- Must be able to troubleshoot problems and elucidate root causes of experimental failures.
- Proficiency in writing lab protocols, SOPs and research papers

Additional Information:

- Onsite at Walter Reed Army Institute of Research in Silver Spring, MD
- Night and weekend hours may be required.

#LI-AS1

### **Company Overview:**

Odyssey Systems Consulting Group, is an innovative small business committed to providing world-class technical, management, and training support services to government and public sector clients. We focus on people, processes, and performance to deliver superior results. Since our inception in 1997, our commitment to mission success and customer satisfaction has been recognized with exponential growth and exceptional past performance ratings. We accept challenging assignments and drive projects from the planning stages, through implementation, and into operations and support.

Please note: Final compensation for this position will be determined by various factors such as the Federal Government contract labor categories and contract wage rates, relevant work experience, specific skills and competencies, geographic location, education, and certifications.

Equal Opportunity Employer/Protected Veterans/Individuals with Disabilities