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**Opportunity Title:** Senior Scientist
**Opportunity Reference Code:** 0103-NIAID-2020

**Organization** ORAU

**Reference Code** 0103-NIAID-2020

**Description** ORAU has a contingent job opportunity for a Senior Scientist in support of in support of the overall functions of the NIAID Vaccine Research Center (VRC), located in Bethesda, MD. The positions are contingent on award of an upcoming contract with NIAID Professional, Scientific and Technical Support Services. Salary for positions will be determined based on education and experience. Relocation support is not available for this position.

ORAU has been providing scientific and technical talent staffing solutions and designing, managing, and evaluating jobs and internships for more than 70 years. ORAU assists in connecting the best and most diverse group of students, recent graduates, faculty and professionals with world-class fellowships, internships and job opportunities, whether in national laboratories, research institutions, federal government offices or private sector R&D departments.

***Technical Requirements:***

Lead a project team for the evaluation and development of stable formulations in the liquid or frozen state (project dependent) for the vaccine candidates at VRC, including the following subtasks:

- Design fit-for-purpose formulation and stability studies.
- Oversee the technical execution of those studies by Formulation personnel, and personally execute studies as needed.
- Analyze, collate and interpret study data (directly and that analyzed by team members) based on technical expertise, previous project experience, organization knowledge and accepted scientific field literature.
- Represent the Formulation Group in cross functional teams with VRC/VPP development personnel to facilitate overall project objectives.
- Represent the Formulation Group and the VRC/VPP in cross functional teams with GMP personnel to facilitate transfer of development procedures to GMP facilities.
- Represent the Formulation Group and the VRC/VPP in cross functional teams with external stakeholders as required by project.
- Provide strategic guidance and technical instruction to formulation team members.
- Develop and execute assays for biological product characterization, formulation development and stability testing of recombinant protein-based vaccines, proteinaceous nanoparticles, and virus-like particles.
- Analyze, interpret and present data in small group, department and conference settings.
- Write and review technical reports and protocols documenting formulation, stability and method development studies.
- Contribute directly to regulatory filings in collaboration with VRC Office of Regulatory Systems

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**Qualifications**

- Ph.D. in Pharmaceutics, Chemistry, Biochemistry, or a related discipline is required.
- M.S. and 3 years of relevant additional experience may be considered equivalent to a PhD
- Minimum of three to six (3-6) years industry or equivalent non-profit experience in **protein and/or vaccine formulation** or a related field (directly relevant post-doctoral experience may be considered equivalent on a candidate by candidate basis).
- Hands-on experience with the design and execution of studies for the formulation of protein therapeutics and/or vaccines.
- Strong background in both physical and chemical stability of proteins.
- Hands-on experience in the theory, use, data analysis and data interpretation of the majority of the following techniques:
  - Calorimetric analysis (Differential Scanning Calorimetry and Isothermal Chemical Denaturation)
  - Circular Dichroism, Intrinsic and extrinsic Fluorescence and Uv-Visible spectroscopies
  - Particle analysis (MFI, Nanosight, DLS, LO/HIAC)
  - Classic protein biochemistry sample handling and analysis (UF/DF, SDS-PAGE, Western Blot)
  - Chromatography (SEC, RP)
- Experience in leading a development team, including technical instruction of junior associates, project scheduling and resource management.
- Experience in active participation on cross-functional project teams.
- Experience in data analysis and experimental design software packages (e.g. Prism, SigmaPlot, MicroCal Origin, JMP, etc.).

**Eligibility Requirements**

- **Degree:** Doctoral Degree.
- **Discipline(s):**
  - **Chemistry and Materials Sciences** (6 👁)
  - **Engineering** (2 👁)
  - **Environmental and Marine Sciences** (1 👁)
  - **Life Health and Medical Sciences** (45 👁)

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