

**Opportunity Title:** Bioinformatics Scientist

**Opportunity Reference Code:** 0206-NIAID-2020

**Organization** ORAU

**Reference Code** 0206-NIAID-2020

**Description** ORAU has a contingent job opportunity for a Bioinformatics Scientist in support of the overall functions of the Laboratory of Clinical Immunology and Microbiology (LCIM), Immune Deficiency Genetics Section, National Institutes for Health (NIH), 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.

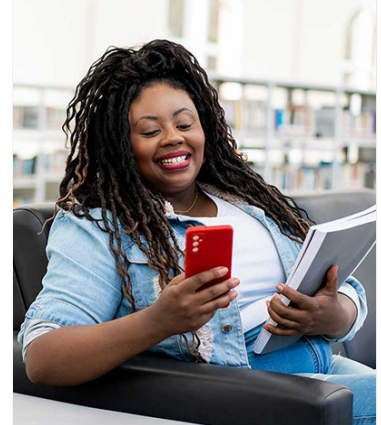
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**Technical Requirements:**

- Perform and provide cutting edge bioinformatics approaches to study human and animal immune responses on both a single cell, cell population, and systems level using clinical and research materials from healthy subjects and patients with a variety of genetic or acquired immunodeficiencies.
- Provide software and web applications for data analysis and visualization from inception to implementation to optimization.
- Create custom workflows for automated data analysis using Python and other programming tools.
- Perform data analysis using R, Python, JAVA, and SQL.
- Provide data analysis of sequence and expression data from databases, laboratory sequencing initiatives, flow cytometry, and other sources.
- Perform bioinformatics analysis including sequence processing, alignment, assembly, and annotation (such as with BWA, SAMTools, MUMmer, MetaSpades, HUMAnN2, etc).
- Maintain detailed records of experiments and their results and prepare the information resulting from these experiments for presentations at laboratory-wide meetings and for publication.
- Write reports of findings, stating methods and procedures, including any modifications employed, specimens and materials involved and results of experiments. Maintain laboratory records. Interpret, evaluate, and discuss the results of each experiment with the supervisor as part of the planning process for subsequent studies.
- Operate and communicate effectively in a group, team-oriented working environment; Work with and support others in a collegial, open, respectful, and interactive working manner. Work collaboratively with others in the lab to generate data for publication(s).
- Perform analysis and interpretation of data, prepare summaries of



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laboratory findings to be used in reports and papers to be presented at scientific meetings and/or publication in scientific journals.

- Provide training of junior lab staff (postdocs, PhD students and postbacs) on software applications and approaches for bioinformatics.

- Qualifications**
- Master's Degree or Ph.D. in related discipline with minimum of 2 years of experience
  - The education, skills and relevant years of experience required for each support position are consistent with those identified as the minimum requirements for the labor categories specified in the contract.

- Eligibility Requirements**
- **Degree:** Master's Degree or Doctoral Degree.
  - **Discipline(s):**
    - **Computer, Information, and Data Sciences** ([16](#) 👁)
    - **Engineering** ([4](#) 👁)
    - **Environmental and Marine Sciences** ([1](#) 👁)
    - **Life Health and Medical Sciences** ([45](#) 👁)
    - **Mathematics and Statistics** ([10](#) 👁)

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