STATEMENT OF WORK (SOW)
FOR
SUPPORT SERVICES

The Downstream Process Development team is actively recruiting entry level and more experienced candidates to join the VPP/VRC/NIH to develop processes to deliver material for first-time-in-human clinical trials. The successful candidate will have a bachelor's degree in BioEngineering, Chemical Engineering, Biochemistry, or other life science. For entry level positions, experience with protein purification either through internship programs or advanced coursework, is highly desirable, though work-related training is understood to be a career-long process. For more advanced positions, experience in BioPharma downstream process development is required. The position-level is equivalent to a Downstream Process Development Associate Scientist I-IV, based on the candidate's experience. The roles/responsibilities for the open positions are as follows:

Process Development:

- Support the Downstream Process Development group of the Vaccine Production Program (VPP) Labs of the Vaccine Research Center.
- Develop downstream (purification) processes, under the supervision of a project lead scientist, for recombinant proteins, virus vaccines, and virus-like particles (VLP) that may be used as clinical vaccine candidates.
- Work independently and collaboratively within the purification group to design, develop and optimize chromatography and filtration step unit operations to support process development of clinical trial vaccine candidates and mAb products.
- Purify research-phase recombinant proteins, virus vaccines and/or virus-like particles in support of other groups at the VRC.
- Demonstrated proficiency in the following techniques or tools for protein purification and characterization:
    - Column chromatography for protein purification by means of AEX, CEX, affinity, SEC, HIC
    - Column packing and testing
    - AKTA chromatography system
    - Lab scale TFF systems
    - Qualitative assays including SDS-PAGE and Western Blot
    - UV/vis spectrophotometer
- Work to prepare necessary materials (buffers, packed columns, etc.) in support of downstream process activities.
- Support technology transfer of processes to VRC Pilot Plant for manufacture of clinical products.
- Write and review technical protocols and reports.
- Analyze and compile data, present at various group/department meetings.
- Must be a team player who can effectively work with members from cross-functional departments.