



VACANCY ANNOUNCEMENT

DEPARTMENT OF HEALTH & HUMAN SERVICES, FOOD AND DRUG ADMINISTRATION,
NATIONAL CENTER FOR TOXICOLOGICAL RESEARCH

Position: Staff Fellow / Visiting Scientist

Series: This position is interdisciplinary and will be filled in an appropriate occupational series under Title 42 U.S.C. 209(g). An official transcript or a foreign education credential will be required upon selection for the position. A course-by-course foreign education credential may be required depending on the occupational series selected.

Location: Jefferson, AR

Opening Date: April 28, 2023

Closing Date: May 11, 2023

Salary Range: Salary is commensurate with education and experience.

Area of Consideration: All U.S. Citizens or eligible foreign nationals

Special Notes: This position will be filled as a Title 42 209 (g) appointment. This is an Excepted Service position under Title 42. This appointment does not confer any entitlement to a position in the competitive service. This position is covered by the HHS and NTEU Consolidated Collective Bargaining Agreement (CBA). We may make additional selections for similar positions from this vacancy announcement.

Introduction:

This position is located in the Division of Systems Biology, Office of Research, National Center for Toxicological Research (NCTR), U.S. Food and Drug Administration (FDA). The FDA is responsible for protecting the public health by assuring the safety, efficacy and security of human and veterinary drugs, biological products, medical devices, our nation's food supply, cosmetics, and products that emit radiation.

NCTR is a multi-disciplinary research center. NCTR's primary mission is to conduct peer-reviewed research and develop new scientific tools for the FDA to improve public health. This research produces new data and innovative tools to solve complex health issues and anticipated toxicological problems, thus enhancing FDA regulatory decision making. NCTR provides multidisciplinary training and fosters national and international collaborations with scientists from government, academia, and industry.

The Division of Systems Biology's mission is to address regulatory research needs, knowledge gaps, and emerging health threats using systems-biology approaches and innovative technologies in (1) safety and use of medical products (i.e., drugs, biologics, and devices), (2) safety of foods and supplements, (3) safety and detection of components and impurities in regulated products, and (4) development of technological standards and methods used in regulatory science. Research interests include mechanisms of toxicology and susceptibility to adverse effects, systems and organ toxicities, toxicological effects on reproduction, development, and fertility, methodologies, diagnostics, and models for regulatory science applications, and neuropharmacology metabolomics and toxicokinetics. The strategies that the Division employs to achieve the mission include the use of state-of-the-art tools such as transcriptomics, epigenomics, metabolomics, proteomics, lipidomics, imaging, human and animal-based new alternative methodologies (NAMs), in vivo disease and pharmacodynamic models, and pharmacological tools. The division also incorporates innovative computational and instrumental technology to evaluate differences in risk and toxicology related to species, tissue, sex, and sub-populations.

Duties/Responsibilities:

NCTR is seeking a highly qualified scientist who will serve in a support role as part of a research team investigating toxic and/or immune responses in biological systems with the potential to develop into an independent principal investigator.

Specific duties include, but are not limited to, the following:

- As part of a research team, participates in the design of and conducts innovative studies related to drug toxicity. The incumbent is responsible for substantive aspects of the research.
- Assists in development of *in vivo* or *in vitro* research investigations to help understand immune response to viral infection or the effectiveness of new vaccine candidates.
- Utilizes animal models and multiomics approaches including but not limited to mRNA, microRNA arrays, and spatial transcriptomics to accomplish research goals.
- Develops spatial transcriptomics technology, which is a molecular profiling method that allows the measurement and mapping of gene activity within a tissue sample.
- Works effectively in a multi-disciplinary team of regulatory and research scientists.
- Interacts with colleagues throughout the Agency as a subject matter expert in support of the FDA research and missions.
- Writes research protocols and manuscripts for peer-reviewed publication, as well as maintains current awareness of new and emerging technologies / scientific breakthroughs.

- Reviews protocols, manuscripts, technical reports, and/or scientific papers from within and outside NCTR.
- Presents research in scientific journals and professional conferences.
- Plays an active role in professional scientific organizations serving on committees at the local, regional, and national level.

Desired Qualifications:

- Candidates must have a doctoral-level degree from an accredited institution of higher learning, including: Ph.D. or equivalent degree. Some exceptions may be made depending on the candidate's qualifications.
- Candidates must meet the minimum qualification requirements for the GS 11 level equivalent to the civil service General Schedule. The candidate should have one year specialized experience conducting research in a laboratory setting or assisting with research in a laboratory setting using cell culture various or molecular biology techniques such western blots, DNA extraction, or polymerase chain reaction (PCR).

NOTE: Our ideal candidate will possess experience with reverse transcription-PCR (RT-PCR), enzyme-linked immunosorbent assays (ELISAs), or spatial transcriptomics.

Conditions of Employment:

Ethics Requirements: This position is subject to strict prohibited financial interest regulations which could restrict the type of financial interest (stock holdings) for the employee, the spouse, and minor children of the employee. Selectee for this position will be required to file a Confidential Disclosure Report (OGE 450) and may require the selectee to obtain clearance from the FDA Division of Ethics and Integrity before a final offer can be made. For additional information on the prohibited financial interests, please visit the FDA Ethics and Integrity Office website at <http://www.fda.gov/AboutFDA/WorkingatFDA/Ethics/default.htm>.

Security and Background Requirements: If not previously completed a background security investigation will be required for all appointees. Appointment will be subject to the applicant's successful completion of a background security investigation and favorable adjudication. Failure to successfully meet these requirements may be grounds for appropriate personnel action. In addition, if hired, a background security investigation or supplemental investigation may be required at a later time. Applicants are also advised that all information concerning qualification is subject to investigation. False representation may be grounds for non-selection and/or appropriate disciplinary action.

Application Procedures: Candidates must submit a CV and brief statement of interest to:

Laura Schnackenberg, Ph.D.
Director, Division of Systems Biology
NCTR-50 RM333 HFT-230
National Center for Toxicological Research
3900 NCTR Rd., Jefferson, AR 72079
Email: Laura.Schnackenberg@fda.hhs.gov

The FDA will provide [reasonable accommodation](#) to applicants with disabilities who are not able to apply upon request. Requests may be made by sending a letter or email to the hiring manager.