Department of Health and Human Services
National Institutes of Health
National Institute of Diabetes and Digestive and Kidney Diseases
Bethesda, MD

Deputy Director for Data Science and Translational Research, KUH, NIDDK

This position will serve as the Deputy Director for Data Science and Translational Research in the Division of Kidney, Urologic, and Hematologic (KUH) Diseases of the National Institutes of Diabetes, Digestive, and Kidney Diseases (NIDDK). The incumbent will serve in a leadership position reporting to the Director, KUH (Scientific Executive), and ultimately to the Director, NIDDK and as part of the senior leadership team of NIDDK. As needed, the Deputy Director will serve as the Acting Director, KUH. The incumbent will work closely with the KUH Deputy Director for Clinical Research, Training, and Evaluation and will supervise all data science and translational research within the Division.

The position requires an individual with extensive knowledge and experience in both data science and in KUH basic science and translational research and involves overseeing large extramural multi-center basic and translational consortia. The individual must also have excellent communication and organizational skills and the ability to lead a team of NIDDK/NIH staff on many varied and complex projects. The incumbent will lead and direct a wide range of data science activities such as the integration of large and diverse KUH/NIDDK datasets and cloud migration to support a shared ecosystem that maximizes access and reuse of biomedical research data. The incumbent will also provide scientific leadership for all KUH basic and translational research and perform data-driven evaluations to assess research and workforce trends and to identify scientific gaps and opportunities. Specifically, this position will:

Lead and direct a data science effort to integrate and publicly share several large, diverse, and complex KUH datasets to support the diverse communities working together to improve the lives of people with KUH diseases.

- Serve as lead architect to design and optimize all KUH basic and translational research consortia -- which are currently generating molecular/omic, image, and genetic datasets -- for data integrity, harmonization, scalability, security, accessibility, re-use, and migration to a cloud-based environment.
- Use data science expertise and vision to enable FAIR (Findability, Accessibility, Interoperability, and Reusability) principles to democratize data analysis and data usage.
- Lead community-wide efforts to develop ontologies and controlled vocabularies to support the functional integration of all KUH datasets for public exploration and discovery.
- Oversee QA/QC efforts to ensure that only high-quality scientific data are released and displayed to the public.
- Pilot the efforts outlined in the preceding 5 bullets using the ReBuilding a Kidney (RBK) and GenitoUrinary Development Molecular Anatomy Project (GUDMAP) knowledgebases, to pave the way for future harmonization of other datasets, including the Kidney Precision Medicine Project (KPMP), and larger efforts across the NIDDK/NIH.
- Support and grow a highly collaborative informatics community across KUH research mission areas using expertise in data science. Lead KUH efforts to grow a highly collaborative bioinformatics community across the NIDDK, NIH, Federal Government, and broader National and International research communities.
- Supervise a Data and Technology Advancement (DATA) National Service Scholar to help develop computational pipelines and strategies, and data management frameworks to migrate large KUH

public datasets to a cloud-environment.

Leverage unique scientific expertise to oversee all KUH basic and translational research devoted to the study of the biological processes of life, the prevention and treatment of disease, promotion of health, and the social, genetic, and environmental factors related to health and diseases. Where applicable, incorporate modern data science approaches.

- Use highly specialized scientific expertise to serve as lead architect for the ideation of all KUH basic and translational multi-center research initiatives, including new trans-NIH research initiatives.
- Develop and implement data-based metrics and analyses to support funding decisions and maintain the NIH's integrity as a major funder of essential scientific research.
  - Establish and continually improve metrics of success by leading and performing scientific evaluations of all KUH basic and translational programs.
  - Incorporate new visualization tools developed using data science approaches.
  - Share analyses widely with the broader research community to spur discussion and action (e.g., present data at National and International conferences, publish editorials and commentaries).
- Provide leadership and supervision through the assignment of significant IC (or OD equivalent) resources, and/or integrative management of all KUH basic and translational research.
- Promote KUH research activities and outcomes across the NIH, Federal Government, and broader National and International research communities.
- Oversee the KUH Interagency Coordinating Committee (KUHICC) to encourage cooperation, communication, and collaboration among all Federal agencies involved in KUH research. . Facilitate the coordination of information from partnering Federal Agencies/Departments (including CDC, FDA, CMS, AHRQ, USDA, DoD, and the VA) for all current and future KUHICC meetings.
- Use a scientific data driven analysis to identify research gaps through broad strategic planning exercises (e.g., Kidney Research National Dialogue) and focused round table discussions (e.g., Microbiota and Blood Pressure), promote shared opportunities (e.g., joint NIDDK/NHLBI symposium on mitochondria), and catalyze translation that is inherent to the KUH/NIDDK mission (e.g., 21st Century Cures Act, NIH/FDA Regenerative Medicine Initiatives).
- Provide scientific leadership for all KUH basic and translational multi-center research consortia, which have an annual budget of >$25M and involve over 50 institutions, including hospitals, centers, and universities.
- Participate in trans-NIH discussions to devise and implement data analytic approaches to help with continuing efforts to evaluate peer review processes. Supervise KUH direct reports and Program staff workload. Data science and analysis plays a major role in ensuring efficient operations regarding workload, resource, and budget evaluation and allocation. Develop a machine learning based classification system to semiautomatically make grant assignments to program portfolios. Share with NIDDK/NIH leadership and update every 1-2 years as fields emerge.

As necessary, act as liaison to the NIDDK National Advisory Council, serve as Project Officer on grants and cooperative agreements, and Project Scientist on large multi-center cooperative agreements.

LOCATION: Bethesda, MD

REQUIRED QUALIFICATIONS: Applicants must possess a Ph.D. or equivalent degree. The candidate should be a strong communicator with the ability to work collaboratively to solve problems and to make informed decisions.

SALARY/BENEFITS: Salary is competitive and will be commensurate with the qualifications and experience of the candidate. Full Federal benefits will be provided, including retirement, health and life insurance, long-term care insurance, leave, and a Thrift Savings Plan (401K equivalent). A recruitment or relocation bonus may be available, and relocation expenses may be paid.

EQUAL OPPORTUNITY EMPLOYMENT: Selection for this position will be based solely on merit, with no discrimination for non-merit reasons such as race, color, religion, gender, sexual orientation, national origin, political affiliation, marital status, disability, age, or membership or non-membership in an employee organization. The NIH encourages the application and nomination of qualified women, minorities, and individuals with disabilities.

STANDARDS OF CONDUCT/FINANCIAL DISCLOSURE: The NIH inspires public confidence in our science by maintaining high ethical principles. NIH employees are subject to Federal government-wide regulations and statutes, as well as agency-specific regulations described at http://ethics.od.nih.gov/default.htm. We encourage applicants to review this information. The position is subject to a background investigation and requires the incumbent to complete a public financial disclosure report prior to the effective date of the appointment.

FOREIGN EDUCATION: Applicants who have completed part or all of their education outside of the U.S. must have their foreign education evaluated by an accredited organization to ensure that the foreign education is equivalent to education received in accredited education institutions in the United States. We will only accept the completed foreign education evaluation. For more information on foreign education verification, visit the National Association of Credential Evaluation Services (NACES) website. Verification must be received prior to the effective date of the appointment.

REASONABLE ACCOMMODATION: NIH provides reasonable accommodations to applicants with disabilities. If you require reasonable accommodations during any part of the application and hiring process, please notify us. The decision on granting reasonable accommodation will be made on a case-by-case basis.

HOW TO APPLY: Interested candidates should submit a curriculum vitae and bibliography, and full contact information for three references. Application packages should be sent via e-mail to Katie Tucker – Katie.tucker@nih.gov. Review of applications will begin on or about March 6, 2022, but applications will be accepted until the position is filled.

DO NOT INCLUDE YOUR BIRTH DATE OR SOCIAL SECURITY NUMBER ON APPLICATION MATERIALS. DHHS and NIH are Equal Opportunity Employers and encourage application from women and minorities.