

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

Senior Advisor for Data Management Systems and Cell Biology, Division of Diabetes, Endocrinology, & Metabolic Diseases (DDEM)

This position will lead the application of Data Management Systems in the Division of Diabetes, Endocrinology, and Metabolic Diseases, (DDEM). This position will develop and implement new approaches to meet the data science needs of DDEM for data management and grants administration systems in support of the biomedical research of DDEM disease areas. The incumbent will serve as the Senior Advisor for Data Management Systems and Senior Advisor for Cell Biology. The incumbent will also serve in a leadership role as member of the DDEM Management Committee reporting to the Director, DDEM (Scientific Executive) and ultimately, the NIDDK Director. The Senior Advisor for Data Management and Cell Biology position requires significant scientific expertise in the unique mission areas of DDEM, extensive knowledge and experience in data science and data management systems, cell biology, and a broad knowledge of basic, clinical, and translational research. As needed, this position serves as the acting Director during absences of the DDEM Director.

This new position will coordinate and oversee the scientific evaluation of data systems and serve as the divisional liaison with the other divisions and offices within NIDDK's extramural program to develop plans to achieve maximal data and workflow integration across NIDDK. This position is critical for assuring that DDEM and NIDDK continue to develop and review scientific data models and analytic tools for optimal stewardship of Congressional appropriations. The position entails scientific oversight of a large, complex program of basic science, clinical and translational research focused on Cell Biology in Diabetes and Obesity.

Senior Advisor for Data Management Systems

The Senior Advisor will provide strategic direction and oversight for developing, directing, and implementing critical DDEM/NIDDK data systems processes including:

- Scientific initiative planning and prioritization, founded in current and emerging portfolio analysis tools and that relies on the recently implemented Initiative Tracking System (ITS), a data system developed within NIDDK that integrates with existing NIH systems and uses an open source platform (.NET) and relational database system (MySQL). ITS is still under development and the incumbent will serve as DDEM's leading expert or leading authority in continued platform development and expansion of ITS to incorporate functions currently operating in isolation.
- Coordinate and direct the use and update of existing data systems; oversee the development and customization of new scientific data systems; and help optimize enterprise solutions in data systems management, portfolio analysis and grants administration for DDEM. The incumbent will serve in a pivotal role involved in understanding, developing, analyzing, standardizing, and modernizing grant systems and will be charged with overseeing the implementation of new processes in the division.
- Oversee the generation and management of large scientific data sets in support of NIDDK/DDEM Council activities. Specifically, the incumbent will be responsible for overseeing the initiative entry and use of DK Council Action System (CAS) and will be responsible for providing the data for Council early concurrence approval to expedite the funding process for a subset of awards.

- Provide leadership and supervision for optimizing/developing scientific data systems to support DDEM workforce activities, workload assignments, workload balancing, and informing the Division Director to make decisions on scientific staff hiring. Conducts analysis using this data to present to DDEM and NIDDK leadership to facilitate decision making.
- Establish metrics of success by leading and performing scientific evaluations of all DDEM basic, clinical and translational programs. When appropriate, all such evaluations will be shared widely with the broader research community to spur discussion and action. These data-based metrics and analyses support funding decisions and maintain the NIH's and NIDDK's integrity as a major funder of essential scientific research.
- Apply data analytics to provide strategic direction and oversight to all DDEM basic, clinical and translational scientific efforts. Continually monitor and evaluate existing and potential research opportunities and gaps. Solicit input from the extramural community to broadly communicate outcomes and recommendations.
- Engage NIDDK leadership in scientific prioritization and resource management for new and revised scientific initiatives (e.g., RADIANT, Diabetes Foot Consortium, etc.) and innovative training programs (e.g., Catalyst, Gateway, etc.) based on prior workshops from program and discussions with both internal (program staff, NIDDK Division of Extramural Activities, Grants Management Branch, etc.) and external stakeholders, including the NIDDK National Advisory Council, Research Steering Committees as part of research consortia, external expert panels, etc. Determine the value of these initiatives and evaluate the results they produce.
- Direct the creation and management of data to support both NIDDK strategic planning and DDEM-specific strategic planning and implementation.
- Oversee the coordination of DDEM/NIDDK stakeholder data requests with appropriate NIDDK offices including the Office of Scientific Program and Policy Analysis (OSPPA), the Office of Research Evaluation and Operations (OREO), and the Office of Communications and Public Liaison (OCPL).
- Lead and direct the development of new and updated data systems, SOPs, training tools used in on boarding of new staff and continuing education of DDEM program staff and program analysts.
- The Senior Advisor will need to possess a unique combination of skills and the individual must also have excellent communication and organizational skills in order to lead the data management systems in DDEM. The senior advisor must have the experience and ability to lead the work of a team of NIDDK staff on many varied and unique projects serving as a large working group as Chair, Co-Chair, and committee member on wide-ranging projects.

Senior Advisor for Cell Biology

The Associate Director will serve as Senior Advisor for Cell Biology and Program Director for the Adipocyte Tissue Biology program in DDEM. Specifically, this position will:

- Manage a portfolio of grants focused on the life cycle of adipocytes, preadipocytes, and progenitor cells as well as immune, and stromal vascular cells important in fat tissue biology.
- The incumbent will have the responsibility to implement data systems to enhance basic research approaches and effective data management for these scientific areas.
- The program includes studies of the development, maintenance, plasticity and turnover of different types of adipocytes (white, brown, beige and marrow fat cells) including studies focused on the role of endoplasmic reticulum stress autophagy, and epigenetic regulation; lipid droplet biogenesis, signaling and turnover in response to food and changes in glycemia; regulation of fatty acid turnover and storage; adipokine generation and secretion; the role of immune cells, endothelial cells, extracellular matrix components and cells of the stroma in determining the metabolic properties of

different fat depot and their common and unique responses to excess nutrients and signals from other tissues; and the regulation of thermogenesis. These studies can be conducted in model organisms, rodents, human cells, human subjects as well as bioengineered materials.

- The incumbent should have skills in data science that can be applied to cell biology approaches that can be used to generate new hypothesis, improve rigor and reproducibility, perform common bioinformatics tasks and result in all outputs that are findable, accessible, interoperable and reusable (FAIR).

The Senior Advisor for Cell Biology will be extremely active in many NIDDK working groups both within NIDDK and across NIH, including those focused on obesity, translation, council operations, and training and career development. The Senior Advisor will be a contributing member of the NIDDK Office of Obesity Working Group that is co-led by DDEM and the Division of Digestive Diseases and Nutrition (DDDN) Program Directors. The Senior Advisor will provide basic and data science expertise to the Office of Obesity's programs and research. Specifically, it is expected that the Senior Advisor will assist in development of scientific initiatives important for understanding both obesity and diabetes. The Senior Advisor will update the NIH Obesity Task force on programs to enhance scientific focus (e.g., inform on obesity focused workshops and initiatives and assist in recruiting basic science speakers for the yearly/bi-yearly NIH Obesity taskforce presentations, and provide strategic plan and scientific updates to the office, etc.).

LOCATION: Bethesda, MD

REQUIRED QUALIFICATIONS: Applicants must possess an 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 April 27, 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.