The Division of Cancer Epidemiology and Genetics (DCEG) of the National Cancer Institute is recruiting an accomplished, senior investigator to serve as Chief Data Scientist in the Office of the Director, DCEG. The mission of DCEG is to discover environmental and genetic determinants of cancer, and to identify new approaches to cancer prevention through epidemiological research. The Chief Data Scientist will lead efforts to define new infrastructure to extract, manage, and analyze data in a scalable way to support epidemiological research within the Division. He/she will also be provided with the resources to lead an internationally-recognized scientific research program in big data analytics for cancer research.

The incumbent will play a leadership role and work closely with DCEG investigators to conceptualize, design, and develop analytic solutions for high dimensional, complex data, including the ability to articulate data-intensive analytics using cloud computing infrastructure and user-facing web computing/mobile development. Responsibilities include creating a roadmap for implementing data and analytics strategy, including infrastructure design and development of data models; leading efforts to develop scalable, innovative approaches to extract, manage, and analyze data; and providing oversight and procedures for modeler/statistical team members on key projects in collaboration with the Biostatistics Branch. The incumbent will also develop a vision for data analytics architecture and workflows for epidemiologic studies; establish data policies, standards, organization and enforcement of data governance; develop innovative approaches to link internal systems with external data; lead collaborations within other agencies of the federal government, academic institutions, and healthcare industry to invent, pilot, and operationalize emerging data science solutions, methods, and processes; and drive data science innovation in epidemiology through active participation in professional societies, key events, and public-private partnerships. He/she will work closely with the NCI Center for Biomedical Informatics and Information Technology to coordinate DCEG solutions with NCI-wide programs, and will coordinate the DCEG data strategy with other NIH Institutes and Programs.

The successful candidate must hold a Ph.D. or equivalent doctoral degree in computer science, mathematics, statistics or a related science and have strong written and verbal communication skills. He/she must have a minimum of five years of relevant experience in data science, and demonstrate experience with algorithms for complex data integration and capture as well as application of advanced data analytics, including data mining and visualization. The incumbent must demonstrate deep understanding of database design and structure. Experience should include work with applications backed by data-intensive infrastructure and statistical applications. The incumbent must demonstrate the ability to conduct high-quality, original research that has been published in peer-reviewed scientific journals and presented at scientific meetings. He/she must also have experience in developing and mentoring staff at all levels and building an internal capacity to deliver high quality and highly innovative analytics services.

The Chief Data Scientist will be eligible for a tenured appointment at a salary commensurate with his/her qualifications and experience. Full Federal benefits including leave, health and life insurance, long-term care insurance, retirement, and savings plan (401k equivalent) will be provided. Interested individuals should send a cover letter summarizing research interests, accomplishments, and scientific administrative experience; curriculum vitae and bibliography; a list of up to five key publications; and the names and addresses of three references to:

Ms. Catherine McClave
Division of Cancer Epidemiology and Genetics, National Cancer Institute
E-mail: NCIChiefDataScientist@mail.nih.gov

Applications received by January 13, 2017 will be considered for a first round of interviews, but applications will be accepted until the position is filled. The DHHS and NIH are Equal Opportunity Employers.