Data Scientist – Schmidt DataX Project

Do you want to help enable and advance groundbreaking research through data analysis and software development? Do you have a background in research but love to write code and analyze data? Are you looking to apply your data science and computational skills to exciting new research problems? If so, then we have an exciting opportunity for you.

Princeton University is building a community of data scientists to work in partnership with Princeton’s world-renowned faculty and students to help solve data-driven research problems. You will work with faculty in a collaborative, multidisciplinary environment and actively contribute your skills to advance the progress of scientific discovery. You will have access to Princeton’s first-class resources, the opportunity to co-author academic publications, to offer short courses and workshops on data science, and to collaborate with, and learn from, the larger computational data science community at Princeton.

Three research areas are of particular interest:

- Catalysis – led by the Department of Chemistry, in collaboration with other departments including Chemical Engineering, Molecular Biology, and Computer Science.
- Biomedical Data Science – led by the Department of Computer Science, in collaboration with the Lewis-Sigler Institute for Integrative Genomics, Princeton Neuroscience Institute, and additional engineering departments.
- Technology Policy – led by the Center for Information Technology Policy.

Prior experience in one of these areas is an asset but is not required. You will be mentored in the relevant research area. If you have a strong background in scientific programming, academic research, and an interest in contributing to groundbreaking research, you have the right skill set.

These are 3-year appointments offering a very competitive salary and excellent opportunities for growth and career development. The positions are part of the Schmidt DataX project, an initiative made possible by a major gift from Schmidt Futures.

Responsibilities:

- Integrate with interdisciplinary research teams and creatively develop/apply modern data science, statistics, and machine learning techniques to advance the research underway.
- Coding/algorithmic prototyping of relevant analysis methods, including setting clear goals, measuring progress, and the creation of appropriate documentation.
- Collaborate with, educate, convene, and support a broad community of researchers on campus in how to best leverage data science in their teaching and research. This may include contributing to mini-courses and workshops on data science.
- Communicate results and impact to all stakeholders. This may include presenting research at academic conferences and workshops.

Required Qualifications:

- PhD required in computer science or related discipline; or equivalent combination of educational training, relevant experience, and accomplishments.
- Strong coding/algorithm prototyping skills, and the ability to explain and document work.
- Proficiency in one or more of the following: Python, C, C++, SQL.
• Experience working in data analysis/statistics/machine learning/scientific computing to address basic research questions; or commensurate achievements.

Additional Desired Qualifications
• Strong problem-solving skills, and a passion for answering hard questions with data.
• Excellent verbal and written communication skills.
• The ability to communicate complex ideas to relevant stakeholders.
• Experience in a collaborative, multi-disciplinary research environment, and an eagerness to collaborate with both technical and non-technical colleagues.
• Experience in database design and building data-driven web applications.

Princeton provides an exceptional work environment that includes a comprehensive set of programs, services, benefits, and resources, and access to cultural opportunities for you, your spouse or domestic partner, and your children and other family members. This includes: competitive health, dental, vision and life insurance for employees and their families; Generous vacation and sick leave packages; Responsible retirement planning with a generous company match; Competitive parental leave; Staff Educational Assistance Plan for employees with one year benefits-eligible service; Backup Care Advantage Program for regular child or elder care.

Applications are accepted online at https://www.princeton.edu/acad-positions/position/13062. Please include a cover letter (preferred) or writing sample, curriculum vitae, and the names and contact information of three references. References will not be contacted unless you are a finalist.

Princeton University is an Equal Opportunity/Affirmative Action Employer and all qualified applicants will receive consideration for employment without regard to age, race, color, religion, sex, sexual orientation, gender identity or expression, national origin, disability status, protected veteran status, or any other characteristic protected by law. This position is subject to the University’s background check policy.