Data Science Internship

Department: University of Utah Health Sciences Strategy

Title: Data Science Intern

Pay: $16.50/hr; eligible for "time and a half" pay for overtime.

Hours: 4+ hours per day; 20+ hours per week strongly preferred

Location: 102 Tower, Downtown Salt Lake City

Primary Contact: Dave Engler, Data Scientist, 801-587-3795

Secondary Contact: Heather Hamblin, Strategy Writer, 801-587-7472

Summary: The data science intern works for Health Sciences Strategy in the Office of the Senior Vice President for Health Sciences and reports to the Director of Strategy. Health Sciences Strategy is a dynamic work environment that facilitates an array of strategic initiatives aimed at achieving core health sciences missions. The data science intern typically works in small team settings to move projects from conception stage to implementation stage in a timely and effective manner. Projects are rolling and have arcs that last from weeks to months. The position calls for detail-oriented analysis as well as an ability to think critically, abstractly, and theoretically. Successful performance is demonstrated through proactive development, management and analysis of complex datasets, clinical data science (e.g., patient segmentation, episode prediction, and health outcome analytics), financial data science (e.g., pro forma financial statements and comparative cost-benefit analyses), business data science (e.g., market assessments and comparative service line evaluations), innovative and interactive data visualizations and the effective blending thereof to inform, craft, and monitor health system strategy.

Qualifications: The position requires significant progress toward a degree in data science, computer science, statistics, econometrics, mathematics, quantitative social science or a related field. Candidates must be familiar with a range of advanced statistical techniques and have knowledge of at least one statistical programming language such as Python or R. Acumen for and interest in development of interactive data visualizations is also required (e.g., D3). Candidates should be able to advance multiple projects concurrently and meet strict deadlines. Excellent communication skills, including the ability to cogently explain and defend research methods and present research findings, are also required.

Preferences: Interest or experience in business strategy, business development, and healthcare transformation. Expertise in predictive analytics, non-linear systems thinking and modeling, data mining, machine learning, natural language processing, and big data environments (e.g., Hadoop or Spark). Expertise in data collection and cleaning, dataset integration and data management. Experience in geospatial analytics and visualizations (e.g., ArcGIS). Familiarity with and interest in development and management of dynamic data products (e.g., interactive data visualizations and dashboards).

Responsibilities: Coordination of simultaneous projects, under the direction of the Director of Strategy, is essential to the success of Health Sciences Strategy. The following is representative of work performed by data scientists but is not all-inclusive:

- Uses data science to synthesize unstructured, disjointed information into meaningful, compelling narratives that facilitate development and refinement of health system strategy.
- Crafts data products that provide effective summary visualizations of analytical findings and user-empowering functionalities that facilitate and promote self-learning.
- Supports efforts to create presentations with clear, cogent writing and graphical illustrations.
- Supports requests from health system entities by identifying potential data sources, gathering data, conducting statistical work and communicating findings and implications.
- Supports the collection of national, regional, and local data for benchmarking and comparative analytics.
- Undertakes other responsibilities as needed to support the implementation of health system strategy.

Working Conditions and Physical Demands: Employee must be able to meet the following requirements with or without an accommodation:

- This is a sedentary position that may exert up to 20 pounds and may lift, carry, push, pull or otherwise move objects. This position involves sitting or standing most of the time and is not exposed to adverse environmental conditions.

Physical Requirements: Listening, speaking, sitting, standing, and walking.

Disclaimer: This job description indicates the general nature and level of work performed by employees within this classification. It is not designed to contain or be interpreted as a comprehensive inventory of all duties, responsibilities and qualifications required of employees assigned to the job.