Job Posting Research

**Job #1:** https://www.linkedin.com/jobs/search/?currentJobId=1375137438&geoId=104937023&keywords=data%20science&location=Philadelphia%2C%20PA

**What:** Data Analyst ED -- responsible for the development of analytical tools, data transformation, and/or developing advanced visualizations within the Department of Emergency Medicine at Penn Medicine.

**Where:** Philadelphia, PA

**When:**

**How:** qualified: Minimum requirements: BS/A *(have MA in Nutrition Education)* + 3-5 years experience working directly with data and/or databases. *(Have previous experience helping to build database in clinical environment)*

Preferred experience: Healthcare experience is strongly preferred *(have 15 years experience working in hospitals)*; BS in CS, IT, Informatics, Software Engineering, Mathematics, or related STEM discipline. Healthcare experience strongly preferred. *(will have Thinkful bootcamp)*

Required: Experience with relational and/or NoSQL databases (such as Oracle, MSSQL, HANA, HBase) and authoring SQL, PL/SQL and/or T-SQL *(have/will have experience with SQL)*  
Ability to utilize critical thinking *(have)*  
Ability to work independently *(have)*  
Strong written, oral, and non-verbal communication skills *(have)*

Preferred: Experience with programming in languages such as R and Python. *(have/will have Python, minimal exposure to R)*Experience with the SAP BusinessObjects suite (Lumira, Crystal Reports, Web Intelligence, etc), PowerBI, D3 and/or other advanced visualization *toolsets (??; have/will have experience with Matplotlib and Seaborn)*Knowledge of healthcare data/systems *(have)*

**Day-to-Day:**

Accountabilities

* Utilizes large complex data sets to meet functional and non-functional business requirements.
* Build the analytics infrastructure required for integrating information from a wide variety of data sources using task specific appropriate tools.
* Create analytics tools that utilize existing data assets to provide actionable insights into operational efficiency, quality improvement, and other key business performance metrics.

Provides project management guidance and expertise to facilitate operations improvement projects.

* Continuously improves departmental processes, programs, operations, and services.
* Research and data analysis in support of troubleshooting production issues.
* Participate in resolution of routine data integration errors/variances when needed.
* Coordinate with other IS groups to see problems through to resolution
* Attend planning and status meetings with team members, system administrators, and/or clients/end-users to understand project requirements and provide constructive commentary.
* Proactively contribute with ideas and solutions
* Consult users on system and data capabilities.
* Ensures clients find the process supportive and effective
* Provide regular updates and status of issue/task to the manager, product owner, and/or report requestor
* Deliver solutions in line with user expectations as per defined requirements.
* Provide technical counsel to co-workers
* Maintain strict levels of data confidentiality, privacy, and security
* Performs duties in accordance with Penn Medicine and entity values, policies, and procedures
* Other duties as assigned to support the unit, department, entity, and health system organization *(day-to-day would likely be fast-paced with multiple projects in progress at any one time; have experience in managing multiple projects in addition to clinical duties working with both Heart Transplant/VAD team and Clinical Nutrition Support Services departments in hospital; was required to work on various QI project for each department , attend various meetings for each group, work on hospital and/or unit-based committee, and provide education lectures to various staff and physicians, all in addition to clinical duties)*

**Job #2:** https://www.linkedin.com/jobs/search/?currentJobId=1486705021&geoId=104937023&keywords=data%20science&location=Philadelphia%2C%20PA

**What:** Project Manager for City of Philadelphia Dept of Human Services

The PMT Project Manager leads the implementation of system-wide data and technology integration projects as directed by the Deputy Commissioner for Performance Management & Technology or her/his designee. Primarily, the Project Manager for Performance Data & Application Integration is **responsible for: a)** the research, planning, modernization, and integration of all contracted service provider evaluation and performance management tools, applications, and processes; **b)** research on other child welfare system technology initiatives that facilitate practice and outcome improvements to inform innovative approaches at DHS; and **c)** the design and implementation of new applications and/or data integration tools that advance improvements in child welfare practice and system outcomes for children and families.

**Where:** Philadelphia, PA

When:

**How:**

**Qualifications**Completion of a Bachelors degree program at an accredited college or university with course work in Social Work/Social Policy, other Social Science, Information Technology, and/or other relevant fields. *(have BA + 15+ years experience working closely with various hospital Social Workers in managing the discharge needs of patients, including housing requirements and access to food programs)*  
Minimum of 3-5 years working with data sets and performance management, quality improvement and/or evaluation systems. *(have 5+ years experience working with datasets on hospital/unit QI projects)*Masters Degree in social science or relevant field preferred. *(have MA in Nutrition Education)*  
Project management experience and/or applicable business experience. *(have significant experience in managing multiple project both in business (marketing) setting and clinical setting; previously managed a staff of writers, artists, and production managers for marketing agency)*  
OR  
  
Any equivalent combination of education and experience determined to be acceptable by the DHS Division of Performance Management and Technology.

**Day-to-Day:**

Competencies, Knowledge, Skills and Abilities  
  
Demonstrate effective project/team management competencies, such as establishing collaborative team structure and mechanisms, the ability to run a project or serve as project manager, and the ability to ensure a successful project lifecycle. *(have)*  
Communicate (verbally and in writing) effectively with stakeholders participating in this project. *(have)*  
Demonstrate presentation skills, strategic thinking, and high professional ethics. *(have)*  
Establish and maintain effective working relationships with supervisor, leadership, associates, outside consultants and vendors. *(have)*  
Demonstrate knowledge and/or experience with data sets and data systems. *(have/will have)*  
Demonstrate knowledge and practice of project management principles. *(have)*  
Experience preferred in child welfare, behavioral health, and or human service organizations. *(do NOT have; this may be a significant deficit, especially when evaluating potential initiatives or solutions to current issues facing DHS programs; anticipate a hectic day-to-day with meetings and management of various projects; the lack of domain knowledge may play a significant role in my effectiveness in this role)*

**Job #3:** https://www.linkedin.com/jobs/search/?currentJobId=1448149066&geoId=104937023&keywords=data%20science&location=Philadelphia%2C%20PA

**What:** Healthcare Data Analyst -- The analyst enjoys coordinating with interdisciplinary teams to create end to end solutions for improving operational and clinical decision making and will be responsible for empowering users with data across the institution, providing a unique blend of clinical, technical, and analytical expertise.

**Where:** Philadelphia, PA

When:

**How:**

**Required Education:** Bachelor’s degree *(have)*; One (1) year of experience in analytics / business intelligence *(?, don’t specifically have, but with requirement on only 1 year, anticipate could learn quickly)*

**Preferred Education:** Master’s degree in biostatistics, epidemiology, health services research, economics, quantitative science *(have MA in Nutrition Education + 15 years experience working with biostatistics & evidence-based medicine)*

**Additional Technical Requirements**

Experience in at least one computer programming language or analytical programming language (R, Python, SAS, etc) *(will have);*

Experience with data visualization tools preferred (Tableau, Qlik, etc) *(will have);*

Experience with SQL *(have/will have);*

Knowledge of relational database structures *(have/will have);*

Understanding of data flows, conceptual knowledge of ETL *(? Unsure)*

Day-to-Day:

**Job Responsibilities**

**Individual Contributor**

Works with clinical teams and business stakeholders to gather requirements, develop metrics, retrieve data, and ensure validity of results

Contributes to projects and data requests from beginning to end

Creates appropriate data solutions (dashboards, reports, business intelligence tools, etc) and data analysis for the measurement of processes and outcomes

Demonstrates excellent presentation and communication skills to share findings in an understandable and actionable manner tailored to audience and customer's needs.

**Team Player** Collaborates with enterprise data warehouse, data governance, clinical informatics and business teams on any issues relating to data quality, architecture or structure of data repositories impacting analytics. Develops and maintains appropriate, current status and documentation on projects and work products *(day-to-day would likely be fast-paced with multiple projects in progress at any one time; have experience in managing multiple projects in addition to clinical duties working with both Heart Transplant/VAD team and Clinical Nutrition Support Services departments in hospital; was required to work on various QI project for each department , attend various meetings for each group, work on hospital and/or unit-based committee, and provide education lectures to various staff and physicians, all in addition to clinical duties)*