

Job Title:	Data Analyst	Reports To:	Deputy Director/Chief Informatics Officer
Location:	Chicago IL	Travel Required:	
Level/Salary Range:	DOE	Position Type:	FT
HR Contact:	Claudria Hurt	Date Posted:	4/20/2021
External Posting URL:			

**Applications Accepted By:**

Email: [careers@alliancechicago.org](mailto:careers@alliancechicago.org) or Fax: 312.274.0069

Subject Line: Data Analyst

**Job Description:**

**Position Summary:**

Responsible for extracting and analyzing information from clinical and business systems stored primarily in Microsoft SQL Server and Microsoft Parallel Data Warehouse (Parallel computing in database processes), in support of quality and performance reporting, and analytics activities for the AllianceChicago, Research teams/Projects, Alliance members, stakeholders, and User Community. Individual is responsible to extract, analyze and deliver data, statistical analysis and data reports for Research and grants, and, also supports analysis/reporting needs and queries for public health surveillance. Scope of work involves design, development, and implementation of Advanced SQL and other queries, using SQL Server management studio (SSMS), SQL server integration services (SSIS), SQL server analysis services (SSAS). Perform data analysis using statistical concepts like descriptive & inferential statistics, hypothesis testing, chi square testing, ANOVA, Regression to conduct research analysis using Statistical Analysis Software (SAS) and other programming languages/tools.

The work supports BI presentation specialists working on PowerBI (Power BI is a business analytics service by Microsoft. It aims to provide interactive visualizations and business intelligence capabilities with an interface simple enough for end users to create their own reports and dashboards), SSRS (SQL Server Reporting services is a server-based report generating software system from Microsoft. It is part of a suite of Microsoft SQL Server services, including SSAS and SSIS), PowerView, Excel and Crystal Reports and requires familiarity with these tools. The position oversees and monitors Alliance staff who are training and supporting reporting capabilities in Centricity EHR/PM systems, GE data warehouse. The position contributes to the design, build, testing, and maintenance of the Alliance's data warehouse and assist in system implementation of Data operating system (Health Catalyst) and a functional reporting server involving programming in C#, .net framework.

**Abbreviations:**

SQL - Structured Query Language, programming language to extract, transform and maintain data in the database/data warehouse

SSMS - Microsoft tool to maintain database and compile SQL programs

SSIS - Microsoft tool to create data packages to maintain data flow and perform automation of extract, transform and load, SSIS is a platform for data integration and workflow applications. It features a data warehousing tool used for data extraction, transformation, and loading [ETL]. The tool may also be used to automate maintenance of SQL Server databases and updates to multidimensional data

SSAS - A multidimensional analysis Microsoft tool that features Online Analytical Processing, powerful data mining capabilities, and deeper dimensions to business information within a relational database

SAS - A statistical software suite developed by SAS Institute for advanced analytics, multivariate analysis, business intelligence, data management, and predictive analytics

**Essential Duties:**

- Design, create, document, implement, test and maintain complex queries and ETL (extract, transform and loading) procedures. Write complex stored procedure in SQL to extract and maintain patient data
- Perform data mining activities for extracting research data and conduct statistical analysis using SAS/Python to fulfil the research requirements
- Create deliverable data reports/visualization (SAS, PowerBI, SSRS) based on the research needs
- Guide the Alliance Team and Stakeholders to define reporting needs based on user requirements
- Develop, implement, and schedule ETL jobs for data warehouse, create scripts in python, C# to transform and maintain data flow between multiple systems
- Contribute to design and development of data model to perform descriptive and predictive analysis using data science techniques with Python/SAS
- Contribute to the design, expansion and maintenance of the data warehouse, assist in the system implementation of Data operating system (Health Catalyst),
- Assist in the production of reporting server using C#, .net framework, reports and dashboards from data warehouse
- Produce ad-hoc inquires/reports to meet research and quality initiatives
- Provide user training and support related to quality reports and data
- Maintain and administer data warehouse and data marts
- Support identification of and develop solutions to data quality issues
- Resolve data issues with current reports.
- Support:
  - Development of Scopes of Work related to data reporting
  - Creating solutions to client needs
  - Proposing new products and services

**Complete List of skills and tools used in the job:**

SQL, SSMS (SQL Server Management Studio), SSIS (SQL Server Integration Services), SSRS, SAS (Statistical Analysis Software), Data mining, Python, descriptive analysis, inferential statistics, hypothesis testing, chi square testing, ANOVA, Regression, Classification, PowerBI, C#, .net, Visual Code, Visual Studio, Jira, etc.

**Other Requirements:**

- Flexibility and ability to work with individuals of diverse backgrounds and educational levels
- Ability to function in a collaborative and collegial environment as a team player.
- Ability to work in variety of settings
- Detail oriented; highly organized; ability to prioritize and set expectations
- Ability to generate trust and build alliances with coworkers
- Strong technical writing skills and written communications skills
- Familiarity with clinical data a plus

**Education/Training/Experience:**

- Bachelor Level preparation in computer, mathematical, information sciences or equivalent training – Master Level Preferred
- Strong analytical skills and solid understanding of statistical concepts

- Ability to work independently to organize work in a manner that ensures accuracy and efficiency
- Experience with relational databases, data mining and statistical analytics
- At least three years of experience with Microsoft SQL Server 2008 or higher, including SQL Server Reporting Services and SQL Server Business Intelligence Development Studio, SSAS and SSIS, SAS, Python, C#, PowerBI and Crystal Reports
- Familiarity with other data, analytic and reporting tools
- 5-8 years of experience in computer science or information science related field

**Working Conditions:**

- General office setting, extensive desk work at computer terminal
- May be required to lift, carry, bend, reach and stand with parcels up to 25 lbs.
- Will work in a multidisciplinary team environment

**ORGANIZATIONAL OVERVIEW:**

Founded by four partner Community Health Centers in 1997, AllianceChicago's three core areas of focus are Health Care Collaboration, Health Information Technology, and Health Research & Education. AllianceChicago supports the use of HIT to improve quality, efficiency, and access to services in a national network of community Safety Net health care organizations. The mission of AllianceChicago is to improve personal, community, and public health through innovative collaboration.

**ADA Statement:** The Americans with Disabilities Act prohibits discrimination and ensures equal opportunity for persons with disabilities in employment, state and local government services, public accommodations, commercial facilities, and transportation. It also mandates the establishment of TDD/telephone relay services.

**EEO Statement:** AllianceChicago believes that all applicants and employees are entitled to equal employment opportunities and maintains a policy of non-discrimination with respect to religion, color, sex, sexual orientation, national origin, age, veteran status, marital status, physical or mental disability, or any other legally protected class in accordance with applicable law, except where a bona fide occupational qualification exists. AllianceChicago will comply with all phases of employment including, but not limited to, hiring practices, transfers, promotions, benefits, discipline, and discharge.

**Disclaimer:** The above statements are intended to describe the general nature and level of work being performed by employees assigned to this position. They are not intended to be construed as an exhaustive list of all responsibilities, duties, and skills required of personnel as qualified.