

Job Description

Job Title: Statistical Analyst

Department: IPHAM-Ctr for Community Health

Job ID: 35649

Percent Full Time: 100

Location: Chicago Campus

Grade: EXS 8

Job Summary:

This position is central to funded research at Northwestern University that engages health system stakeholders to align large and diverse data assets for the health utilization, outcomes, and expenditures of more than 50 million Americans and applies the highest quality comparative effectiveness research methods to turn data into evidence about effectiveness, safety, and value that can quickly inform health system action. Statistical analyst collaborates with clients to provide evidence about effectiveness, safety, and value that can quickly inform health system action and be published in peer-reviewed journals. This includes helping design the research plan, creating and transforming data, applying the appropriate statistical techniques, interpreting the results, and assisting with dissemination through published manuscripts and presentations. Ideal candidates will have experience in quasi-experimental and natural experimental research design, econometric methods, and statistical approaches for analyzing large observational data to draw conclusions about health outcomes and costs.

Specific Responsibilities:

Strategic Planning

- Manages and plans for data/analysis requests and projects.
- Provides consultation to customers on appropriate data management, methodological issues and statistical analyses.

Development

- Develops queries and quality metrics.
- Interprets results using a variety of techniques, ranging from simple data aggregation via statistical analysis to complex statistical analysis.
- Determines data structure for local datasets.

Other duties as assigned.

Minimum Qualifications:

- Successful completion of a full 4-year course of study in an accredited college or university leading to a bachelor's or higher degree; OR appropriate combination of education and experience.
- 4 years data analysis/report writing or similar experience required.
 - Experience in the following:

- Infrastructure: SQL/MySQL/Postgres
- Programming Languages and Frameworks: SAS Other statistical software such as STATA, R, or Python.
- Compliance: HIPAA, IRB
- Analytical: critical thinking, data modeling, database design/ data structure, problem solving
- Project: Code documentation, collaboration and teamwork, organizational skills

Minimum Competencies: (Skills, knowledge, and abilities.)

- Experience using SQL and statistical software (such as SAS, STATA, R or Python) and a strong statistical background.

Preferred Qualifications:

- M.S. in statistics/biostatistics or Master degree in another related field with a strong statistical background.

Preferred Competencies: (Skills, knowledge, and abilities)

- Experience using large secondary data (e.g. medical claims data).
- Experience using quasi-experimental and non-randomized design techniques.
- Experience working with Linux software.

Northwestern University is an Equal Opportunity, Affirmative Action Employer of all protected classes, including veterans and individuals with disabilities. Women, racial and ethnic minorities, individuals with disabilities, and veterans are encouraged to apply. Hiring is contingent upon eligibility to work in the United States.