

STATISTICIAN

BIG DATA - GREAT TEAM- GREAT CHALLENGE!

The Center for Health Information Services (CHIS) provides reporting and data systems to support safety, quality, service, and population health initiatives within Advocate Health Care.

What You Will Do:

- Conduct specialized, complex analyses that provide actionable insight to improve health care quality and safety, and promote efficient service delivery.
- Create models to predict healthcare utilization patterns, analyzing the relationship between quality care delivery, cost, and utilization, and assessing interventions and outcomes for specific chronic disease populations across the continuum of care.
- Manipulate large health services data sets using SAS, R, or other statistical software, joining financial, clinical, and administrative data from multiple sources.
- Translate program goals into testable hypotheses and collaborates with both internal and external contacts on data and analytical needs.
- Clearly articulate findings to internal and external audiences
- Make recommendations for improvement,
- Track the impact of the improvement solutions.
- Weigh practical considerations and potential barriers in order to successfully implement new programs and processes.
- Work independently to provide statistical consultation and serves as a resource.
- Advise colleagues on the statistical aspects of study design, the planning and execution of statistical analyses using appropriate methods, and the interpretation and presentation of results.
- Identify causes of clinical trends and the impact of data anomalies.
- Evaluates programs for clinical and financial efficacy.

What You Need:

CANDIDATE MUST BE ELIGIBLE ABLE TO WORK IN UNITED STATES WITHOUT SPONSORSHIP

PhD degree in statistics, biostatistics, health services research, or a related field & 5+ years experience in statistical data analysis.

- Expert knowledge of traditional statistical methods including hypothesis testing, confidence intervals, sample size determination, analysis of variation and regression modeling
- Familiarity with additional statistical techniques including data mining, Bayesian modeling, hierarchical models, propensity scoring, GLM, logistic regression, Poisson regression, and hierarchical regression.
- Intermediate level statistical software (SAS, R, SPSS) programming skills.
- Expert knowledge of database querying and query design.
- Experience working with relational databases.

- Demonstrated ability to build collaborative working relationships.
- Proven project management skills.
- Demonstrated critical thinking skills and the ability to creatively problem solve
- Demonstrated ability to effectively communicate analytic findings.
- Ability to travel locally and occasional travel outside Illinois for conferences

**Please contact Sonja Williams, at 630.929.5359 or email your resume to
Sonja.williams2@advocatehealth.com**