

Programmer/Statistician - Health Economics and Real World Evidence

LOCATION: US (can be virtual although a relocation may be possible)

ABOUT:

Anlitiks, a young and vibrant boutique company in the space of Real-World Evidence and Health Economics is growing exponentially. Our team of qualified professionals have grown by more than 10 times in the past year alone and is expected to continue our rapid expansion. Our continued growth is supported by our client base of major pharma and us having attracted significant investment from a strategic partner to propel us further.

STATEMENT OF THE JOB:

Successful candidate must have advanced SAS programming and analysis experience in Health Economics and Outcomes Research (HEOR) and epidemiological research, demonstrated solid experience in using claims databases (e.g., Medicare, Medicaid, Truven/IBM, Optum, etc) and data from EHR for the purpose of research studies using RWD for medical/pharmaceutical research. The Data Analyst will primarily support strategic product value generation initiatives through statistical programming and analytics for prospective/retrospective observational and real-world evidence using large health care administrative databases, electronic medical records, and registries. The successful candidate will utilize SAS, and other programming languages (R, SPSS, STATA, SQL or other) to efficiently work with large real-world databases, to identify and discover target patient populations, disease prevalence and risk factors, describe drug utilization, treatment patterns and disease progression, and other comparative effectiveness questions. The candidate shall also provide advice and guidance on development of web-based analytics tools. The RWE Analyst will work closely within a cross-functional team to execute and deliver on projects in an accurate, effective and timely manner.

ESSENTIAL FUNCTIONS AND RESPONSIBILITIES:

Provide statistical programming support for assigned projects, focusing on real world data analyses from large databases (e.g., Electronic Health Records, medical claims, registries etc.).

- Efficiently manipulate large databases including complex data preprocessing, filtering and manipulation using SAS, STATA, R (or other statistical programs).
- Develop and implement efficient SAS programs and reusable macros as relevant for big data solutions and RWE studies.
- Assist in development of detailed protocols and SAP according to study objectives. Create table and dataset specifications, in collaboration with statisticians and study leads.
- Prepare appropriate datasets by defining patient or disease cohorts, establishing study samples, and structuring data according to research objectives and study design.
- Perform statistical analysis, generate analytic reports, tables, graphics, and slides, and communicate project findings to cross functional teams, or stakeholders.
- In addition to hands-on SAS programming, leverage available web-based RWE analytical tools.
- Provide technical expertise to implement programming and methodology for complex RWE studies.
- Develop and implement rigorous QC processes and programming templates to ensure quality of data and analyses.
- Assist in creation and implementation of validation activities for RWE studies and ensure quality and timely deliverables for all assigned studies/projects.
- Interface with the IT team to maintain and develop computing capacity and analytic tools for RWE studies.
- Collaborate effectively in a matrix and cross-functional environment with programmers, statisticians, epidemiologists, outcomes research scientists within Anlitiks and external biopharmaceutical clients.

REQUIRED QUALIFICATIONS & SKILLS:

- An advanced educational degree (MA/MS, PhD, ScD etc.) in a quantitative science such as statistics, biometrics, epidemiology, econometrics, psychometrics, operations research, engineering, computer science, data/life science, etc.
- A minimum of 5 years hands-on professional programming experience including data steps, procedures, SAS/MACRO, SAS/SQL, SAS/GRAPH, and Stats modules as well as other statistical software.
- A minimum of 2 years hands-on work experience with real world studies using large claims/EMR databases in HEOR or related functions.
- Demonstrated experience and knowledge working with (name specific healthcare database) data and similar healthcare databases.
- Hands-on experience working with large complex and relational databases with knowledge and efficient use of SQL knowledge.
- Knowledge and experience in developing analysis and reporting deliverables for R&D projects (data, analyses, tables, graphics, listings).
- Experience working with medical and billing coding systems such as ICD-9, ICD-10, SNOMED, LOINC, NDC, HCPCS, CPT, etc.
- Understanding of observational research or statistical terminology and concepts is essential.
- Ability to quickly and effectively learn new programming techniques and data structures; capacity to seamlessly assimilate to new projects is required.
- Ability to comprehend analysis plans which may describe observational research and statistical programming methodology to be programmed.
- Strong oral, written and communication skills are required.
- Self-motivation and passion for learning is necessary, self-initiation, takes responsibility for work and ability to meet deadlines are required.
- Excellent organization skills with strong attention to detail, clarity, accuracy, and conciseness.
- Ability to plan, organize, and work on multiple tasks simultaneously in different therapeutic areas is required.
- SAS Big Data certification and experience with distributed computing environments, experience with data standards and common data models for RW data as well as statistical software and visualization tools such as R, Python, RShiny, Spotfire, Tableau or Qlikview is a plus.