Data Scientist (Biostatistics)

About Us
Origent is dedicated to revolutionizing drug discovery and clinical development by managing and reducing drug development risks through better foresight. We are experts in the development and application of predictive models designed to anticipate and predict the disease progression dynamics of individual patients.

Our core focus is directed toward creating and implementing novel methodologies that extend the utility of machine learning models to help uncover a deeper level of insight, one that allows biostatisticians and researchers to gain a clearer understanding and greater knowledge from their data. This focus has allowed us to extend the range of uses of patient-level prediction data to accelerate the process of drug efficacy evaluation and discovery. Patient-level models like these allow drug discovery companies to:

- Conduct smaller, faster clinical trials, thus reducing costs and risks
- Generate quantifiable efficacy data from trials that lack control arms
- Spot failing projects sooner and prioritize resources for the most promising therapies
- Identify patients and patient subgroups that responded to therapies in comparison to how their symptoms likely would have progressed
- Demonstrate earlier progress to their investors

Your Role
Origent is offering a challenging experience for the role of a Data Scientist (Biostatistics). In this role, you'll work on the development of new patient-level modeling capabilities and build out robust applications of these models for use in drug development. You will create solutions that will not only be employed by the world's most recognized companies, but will be relied upon to dramatically accelerate the discovery of new drugs and therapies for diseases like ALS and Alzheimer’s disease. Working closely in a small team environment, you will have the opportunity to contribute to the rapidly evolving science and technology of quantitative modeling and fact-based, optimal decision making.

Candidates for this role must:

- Have a passion for data science and statistics and see a problem as an opportunity for innovation
- Have hands on experience working with human health related data (e.g., clinical trials, EHR, health registry, genetic, imaging, insurance claims)
- Have a minimum of 1-3 years work experience in a data science/statistical role delivering technical work product to clients
- Consistently work towards rigor, reproducibility, and reuse in all aspects of their technical work
- Understand the need for and are excited by the challenge of effectively communicating complex concepts to both naive and expert audiences
- Be curious and eager to learn new data science techniques, statistical methodologies, and cutting edge tools and technologies in addition to helping develop novel implementations of existing technologies
- Be comfortable “wearing many hats” and operating in a startup environment, characterized by high levels of uncertainty, rapid change, limited resources, and massive market potential
- Want to experience first-hand the challenges of bringing disruptive software products to market
- Be excited to work in a collaborative culture grounded in transparency, communication, teamwork, and respect

Aspects of your work may include:
- Liaising with internal solution development teams to develop clinical and business insights and translate clinical and business problems into mathematical solutions
- Utilizing supervised and unsupervised statistical/machine learning modeling approaches using advanced programming languages (e.g., R, Python, SAS, etc.) to develop patient-level disease models from natural history and clinical trials data
- Developing new statistical modeling or machine learning algorithms to address complex drug discovery problems with data sets ranging in scope from very large to very sparse
- Actively participating in the process of taking a prototype model through its remaining development life cycle to become a finished product, including quality control, streamlining, optimization, and computational efficiency
- Developing within and contributing to our evolving elastic cloud (AWS) infrastructure
- Managing development and execution of implementation project plans, meeting all deliverables and deadlines
- Collaborating with other coders and team members to achieve common outcomes

Strongly Desired Qualifications
- 2+ years of experience as a biostatistician designing and evaluating human clinical trials
- A master’s degree or Ph.D. from a statistics, mathematics, computer science, computational social science, operations research, life science, or related program
- Exceptional problem solving skills
- Demonstrated aptitude with conventional and emerging machine learning and statistical modeling techniques, including but not limited to multivariate regression, hierarchical Bayesian modeling, and deep learning, random forest, gradient boosting machines, SVM, etc.
- Modeling experience using machine learning or statistics with R, Python, SAS, etc.
- Exceptional verbal and written communication skills
- Versatility and flexibility to adapt to new situations, including the ability to actively adapt one’s role in a team environment to accomplish a deliverable
- Project management experience
**Bonus Points Qualifications**

- Working experience as a biostatistician, with direct and independent experience designing and evaluating human clinical trials and preparing statistical documentation for regulatory submission
- Familiarity with predictive algorithm development and implementation
- Demonstrated experience designing and carrying out experiments
- Experience with Git/GitHub
- Experience in SQL and database programming
- Additional polyglot programming experience (C#/C/Java/Scala)
- Experience and/or subject matter expertise in a relevant field, such as innovating healthcare data products, working with genetic datasets and/or EHR data, experience modeling using streaming data sets.

**Contact Us**

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