Manager, Data Science & Biostatistics

About Origent
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 disease progression. 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 predicted disease progression to accelerate the process of drug efficacy evaluation and discovery. Machine-learning 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 investor

About the Role
Origent is looking for a Data Science/Biostatistics Manager to join our team! We’re looking for an exceptional new teammate with strong project management skills, experience with and understanding of biostatistical methods, clinical trial data, and machine learning techniques, and a passion for using those skills to positively impact human health!

Key Responsibilities:
- Leading the delivery of client projects and internal research projects, which may include (but is not limited to): implementing applications of existing machine learning modeling to new clinical trial data through analysis reports or data delivery; development and validation of new applications of existing predictive models to clinical trials: development and validation of new predictive models looking at additional outcomes or disease areas.
- Contributing to development of SOWs and Research Plans
- Detailed project and deliverable scoping, including outlining milestones and timelines, uncovering unknowns or blockers to project success and collaborating across the team to gain clarity where needed and ensure high-quality finished product deliverables
- Managing task assignments and day to day work in progress for a team of 2-5 data scientists to meet project goals
- Participating in project work at a granular level by diving into data and code and being highly collaborative and involved in code review and technical process management. Have the capacity to both "lead and do”.

This is an exciting role that will be central to our data science team! This is a great opportunity for someone who has been working more traditionally as a biostatistician but is eager for the opportunity to apply new methods and creative approaches to clinical trials, with the potential for big impact!

Requirements
We recognize that there are always exceptions, and we strive to hire only exceptional individuals, so nothing on this list is strictly required in every case. However, if most of these items sound like you, then you are probably a good fit.
• You have a master’s degree or PhD from a data science, biostatistics, life science, or related program  
• You have at least 2 years of project management experience, managing delivery of data science and/or biostatistical technical work product to clients  
• You have at least 2 years of experience as a biostatistician designing and/or evaluating human clinical trials  
• You have demonstrated aptitude with conventional and emerging machine learning and statistical modeling techniques, such as multivariate regression, hierarchical Bayesian modeling, and deep learning, random forest, gradient boosting machines, etc.  
• You have experience and/or familiarity with our core data science technology stack:  
  - R (tidyverse, R markdown, R shiny)  
  - A few key R packages: dplyr, gbm, randomForest, survival, caret, ggplot2  
  - We have a suite of internally developed R packages - so some familiarity with R package creation and package management is a plus!  
  - Git/Github  
  - Key AWS services: EC2, S3, EFS, Lambda, API gateway  
• You have experience working with human health related data (e.g., clinical trials, EHR, health registry, genetic data, imaging, insurance claims)  
• You are strictly disciplined in the consistent application of rigor, reproducibility, and reuse in technical aspects of your work  
• You have exceptional problem-solving skills  
• You have exceptional verbal and written communication skills  
• You understand the need for and are excited by the challenge of effectively communicating complex concepts to both naive and expert audiences  
• You are curious and eager to learn new data science techniques, statistical methodologies, and cutting-edge tools and technologies  
• You are comfortable “wearing many hats” and operating in a startup environment, characterized by high levels of uncertainty, rapid change, limited resources, and massive market potential  
• You are excited to work in a collaborative culture grounded in transparency, communication, teamwork, and respect  
• You have a passion for data science and statistics and see a problem as an opportunity for innovation  

Skills needed  
• Biostatistics  
• Project Management  
• Data Science  

Benefits include  
• Company-sponsored health, dental, and vision  
• Great open coworking space in the heart of Washington, DC  
• Free cold brew coffee on tap!  
• 401k + match  
• Opportunity for flexible working hours and remote work  
• A team of highly intellectual and creative coworkers who are passionate about solving hard problems and making a difference  

Salary: $125,000 - $140,000  
Location: Washington DC  
Please apply through: https://www.origent.com/about-us/careers/