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Position Summary

LIBD is seeking a rare individual who is at the top of their game in all aspects of data science from biological statistics through machine learning, as well as state of the art analytical techniques. Most importantly, LIBD needs a person who can challenge, motivate and lead a team of diverse talents and disciplines to meet milestones and produce results. This requires a creative, but pragmatic, approach to problem solving and a respectful and stimulating approach to team management. While many technology-related functions are provided through LIBD's affiliation with Johns Hopkins University, the candidate will take pride in ensuring the best end-user experience for researchers and staff.

Primary Duties and Responsibilities

Develop a vision for maximizing the Lieber Institute's unique data sets which are developed from the largest post-mortem human brain collection devoted to psychiatric illness in the world and implement an execution plan for delivering state of the art analysis in order for the Lieber Institute to improve brain health. Use the science and art of data analysis to uncover actionable insights by understanding how genetics and environment can ultimately lead to drug discovery.

Lead a diverse group of data analysts by developing and challenging them to deliver on long term goals through the achievement of short term milestones.

Identify and lead internal and external mission specific collaborations for the benefit of the Institute.

Motivate, train and empower the team to reach their full potential through fostering a culture of collaboration, learning, and experimentation. Hold scientists accountable for mission-oriented results.

Show initiative in all aspects of work and demonstrate a commitment to developing new scientific approaches, tools, methods and concepts that enable and accelerate progress in research and innovation.

Advise CEO on data driven research initiatives that could bring the Institute closer to a potential therapeutic discovery.

Consult with Investigators at the Institute so that they can more effectively integrate and use Institute data and analytical resources.

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Consult with external collaborators to insure the delivery of results.

Manage resources and budget to achieve milestones and meet Institute scientific and financial goals.

Insure the publication of results by the team in a manner that advances science and drives the Institute mission forward.

Conduct Performance Reviews with team to develop members and achieve results.

Candidate Specification: Key Selection Criteria

PhD or MS with a concentration and/or working knowledge of Statistics, Data Science, Computer Science, Machine Learning, Computational Biology, Biomedical Engineering, Bioinformatics or related Quantitative disciplines. MBA is a plus.

10+ Years' experience as a multidisciplinary technical leader and manager. Must have a proven track-record of successfully leading a team of high-level data scientists and a demonstrated record of producing mission centric results.

Must have experience with biological data sets. Previous experience could include working in human genetics and genomics in postmortem, animal, and cellular data and systems biology software; familiarity with cell and molecular biology techniques.

Strong understanding of data structures, algorithms, and design pattern

In order to oversee the development of proprietary algorithms, extensive knowledge and working experience with programming languages such as Python, C/C++, R/ Bioconductor, or similar and proficiency in Linux operating system is instrumental.

Fluency in various machine learning applications

Excellent communication and conflict management skills

Strong analytical and problem-solving skills

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Personal Characteristics

- Leadership and technical gravitas necessary to challenge, motivate, and inspire a team of incredibly smart scientists to come together to achieve LIBD's mission and to attract new talent.
- Creative, but pragmatic problem-solving approach to team management.
- A team-focused orientation and an appreciation for the mission of LIBD.
- Excellent interpersonal, oral and written communication skills.

FOR FURTHER INFORMATION, PLEASE CONTACT

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