

## **Job Title: Data Scientist and Co-Founder**

**Company:** Sirius Biotech Ventures

**Location:** Remote / Frederick, Maryland

**About Sirius Biotech Ventures:** Sirius Biotech Ventures is a pioneering company dedicated to discovering drugs from Caribbean medicinal plants using cutting-edge AI/ML technologies. With a strong focus on oncology, immunology, and infectious diseases, we leverage our unique access to Caribbean biodiversity and innovative technologies to develop efficient, scalable, and affordable solutions in drug discovery. Our research collaborations span prestigious universities across the US, Canada, France, and Guadeloupe, ensuring a rich and diverse scientific environment.

**Job Overview:** Sirius Biotech Ventures is seeking a highly skilled and motivated Data Scientist to join our team as a co-founder. The ideal candidate will have a robust background in AI/ML with a keen interest in biotechnology. As a co-founder, you will play a critical role in shaping the company's scientific direction and technological development. This position offers a unique opportunity to contribute to revolutionary advancements in natural product drug discovery while holding a significant equity stake in the company.

### **Key Responsibilities:**

- Develop and implement advanced AI/ML algorithms for the analysis and prediction of natural product structures from mass spectrometry (MS2) data.
- Analyze and interpret complex gene expression profiling data and high-content imaging data.
- Set up and maintain a robust database infrastructure to handle large datasets related to drug discovery.
- Collaborate with research teams across the US, Canada, and the Caribbean to integrate diverse data sources and enhance our drug discovery platform.
- Contribute to strategic decisions and lead the scientific and technological aspects of the company.
- Drive innovation in data analysis methods and workflows to improve efficiency and scalability.
- Communicate complex technical information to non-technical stakeholders and work closely with other co-founders to align scientific goals with business strategies.

### **Requirements:**

- PhD in Data Science, Bioinformatics, Computational Biology, or a related field.
- Proven experience in developing and applying AI/ML algorithms in a scientific or biomedical context.
- Strong background in handling and analyzing large biological datasets, including gene expression profiling, mass spectrometry data and high content imaging.
- Knowledge of database infrastructure and experience in setting up and managing databases.

- Excellent problem-solving skills and a proactive approach to identifying and addressing scientific challenges.
- Ability to work independently and as part of a diverse, interdisciplinary team.
- Strong communication skills and the ability to articulate complex scientific concepts to various audiences.

**Preferred Qualifications:**

- Experience with mass spectrometry (MS2) data analysis and interpretation.
- Familiarity with high-content imaging data and its application in drug discovery.
- Prior experience in a startup environment or co-founding a technology-driven company.
- Knowledge of natural products and their role in drug discovery.
- Fluency in French is a plus, given our strong ties with French-speaking research institutions.

**Compensation:** This position offers a competitive combination of salary and equity, providing a unique opportunity to benefit from the company's growth and success. As a co-founder, you will be integral to the company's achievements and have the opportunity to make a significant impact.

**How to Apply:** If you are passionate about revolutionizing drug discovery through innovative AI/ML technologies and are excited about the prospect of being a co-founder in a dynamic biotech startup, we would love to hear from you. Please send your resume, a cover letter detailing your relevant experience and why you are interested in this role, and any relevant publications or project examples to [fl.jeanfrancois@gmail.com](mailto:fl.jeanfrancois@gmail.com).

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**Sirius Biotech Ventures** is committed to diversity and inclusion. We encourage applications from individuals of all backgrounds and experiences.