

Senior Principal Scientist - Large Scale Biology Leader

Job ID

REQ-10049916

Apr 23, 2025

USA

Summary

We are seeking a highly skilled and experienced Senior Principal Scientist to lead our Large Scale Biology efforts in HTB Cambridge. The ideal candidate will have a strong background in imaging technology, assay development, and complex cell models. This role requires collaboration with various departments, including Discovery Sciences and other Biomedical Research Disease areas.

About the Role

Internal Job Title: Senior Principal Scientist

Location: Cambridge, MA, onsite

Job Summary:

We are seeking a highly skilled and experienced Senior Principal Scientist to lead our Large Scale Biology efforts in HTB Cambridge. The ideal candidate will have a strong background in imaging technology, assay development, and complex cell models. This role requires collaboration with various departments, including Discovery Sciences and other Biomedical Research Disease areas.

Key Responsibilities:

- Lead the Large Scale Biology efforts in HTB Cambridge, working with matrixed biology teams across Discovery Sciences and other Biomedical Research Disease areas.
- Develop and implement objectives for the Cambridge Large Scale Biology team to accelerate Target ID/Validation projects using complex biology models/assays through automation, automated cell-culture, imaging, and innovative bioengineering solutions.
- Build strong relationships with BR Bioengineering teams to innovate and iterate in collaboration with local project teams on novel solutions for large scale biology in Cambridge.
- Lead efforts to build and foster a local imaging community in Cambridge, reviewing imaging project designs and implementations across Discovery Sciences.
- Implement Discovery Sciences AI/machine learning strategies in Cambridge for imaging data acquisition and analysis, aligned with the global strategy.
- Scout for innovative solutions to scaling biology and prototype these through collaborations or pilot evaluations with biology teams in Discovery Sciences or Disease Areas in Cambridge.
- Contribute to the career development of associates and maintain the culture of HTB Cambridge as a member of the Discovery Sciences HTB Cambridge Leadership Team.

Qualifications:

- PhD with 6+ years or MS with 12+ years of experience in industry, with a strong track record in imaging technology and assay development applied to complex cell assays and models.
- Strong expertise in deploying imaging technologies at scale as applied to genetic and/or small molecule screening.
- Expertise in complex cell model development with an emphasis on automating and scaling assays for robustness and increased throughput.
- Strong knowledge of assay development with a concentration on complex cell-based biology readouts (2D/3D cell models/assays) combined with automation solutions for biology at scale.

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Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

State

Massachusetts

Site

Cambridge (USA)

Company / Legal Entity

U175 (FCRS = US175) Novartis Institutes for BioMedical Research, Inc.

Functional Area

Research & Development

Job Type

Full time

Employment Type

Regular

Shift Work

No

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