

# 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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