

# Senior Automation Engineer – Laboratory Automation

Job ID  
REQ-10019417  
Aug 20, 2024  
USA

## Summary

The Senior Automation Engineer will be responsible for designing, developing, implementing and maintaining laboratory robotics which support exploratory biology in an automated fashion. The work will be hands-on and will require a broad range of engineering disciplines including project management, troubleshooting electrical and mechanical parts, develop protocols, liquid handling, and provide operating system validation/verification. Our focus is to design, build, maintain and improve large and small automated systems for high throughput screening, automated cell culture, and compound management.

## About the Role

**Internal Job Title:** Senior Automation Engineer

**Location:** Cambridge, MA, onsite

### About this role:

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### Your responsibilities include, but not limited to:

- Working with assay biologists to adapt bench assays to fully automated assays with high throughput screening systems.
- Working with Sample Management teams to support automation to deliver compounds to scientists globally and adapt and implement cutting edge technologies.
- Act as project manager for small and large scale automation projects. The successful candidate will manage, plan, develop, and execute laboratory automation projects from start-up to completion.
- Work effectively with multi-disciplinary groups and individuals to implement solutions that reflect operational efficiencies in terms of throughput, delivery, costs, as well as health, safety and environmental considerations.
- Act as a primary support engineer for laboratory automation and instrumentation within DSc in Cambridge, Ma. Responsible for the setup, operation, and maintenance of state-of-the-art high throughput (HTS) systems.

- Establish, monitor and maintain a stable and productive automation environment through QC and preventative maintenance.
- Assist in the development of SOP's, maintenance manuals, start-up procedures, etc. and provide training to new users of equipment.
- Must be self-motivated with the ability to multitask and effectively manage timelines.
- Must be able to work independently and in team situations.

### **Essential Requirements:**

- B.S. in mechanical, electrical or bioengineering, or similar engineering discipline.
- 3-5+ years of experience using and implementing automated systems.
- Experience designing, building and deploying automated laboratory workflows in life sciences or clinical laboratories.
- Strong organizational, written, and verbal communications skills required to interact effectively between scientific staff, customers, key stakeholders, and vendors.
- Strong computer skills including MS Office and CAD (preferably SolidWorks).
- Strong troubleshooting and problem-solving skills.
- Experience working with laboratory automation, high throughput assays, and cell culture.

### **Desirable requirements:**

- In addition to the experience above, the ideal candidate would have familiarity with the following systems and associated software: HighRes BioSolutions (Staubli/Denso/Precise) robotic platforms, Sartorius CompacT, Tecan EVO, Agilent benchtop equipment, Beckman Echo, Biosero/Green Button Go robotic platforms, GNF Director robotic platforms, etc.
- Basic understanding of C# or equivalent programming language
- Experience working with engineers and scientists to develop new automated platforms
- Experience with automated High Content Imaging systems such as the Yokogawa CV8000, Perkin Elmer Phenix, or equivalent.
- Ability to create innovative solutions to support complex biological assays at scale.
- Experience with machine tools such as mill, band saw, drill press, etc.

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**Novartis Compensation and Benefit Summary:** The pay range for this position at commencement of employment is expected to be between \$92,800 to \$139,200/year; however, while salary ranges are effective from 1/1/24 through 12/31/24, fluctuations in the job market may necessitate adjustments to pay ranges during

this period. Further, final pay determinations will depend on various factors, including, but not limited to geographical location, experience level, knowledge, skills, and abilities. The total compensation package for this position may also include other elements, including a sign-on bonus, restricted stock units, and discretionary awards in addition to a full range of medical, financial, and/or other benefits (including 401(k) eligibility and various paid time off benefits, such as vacation, sick time, and parental leave), dependent on the position offered. Details of participation in these benefit plans will be provided if an employee receives an offer of employment. If hired, employee will be in an “at-will position” and the Company reserves the right to modify base salary (as well as any other discretionary payment or compensation program) at any time, including for reasons related to individual performance, Company or individual department/team performance, and market factors.

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Division

Biomedical Research

Business Unit

Pharma Research

Location

USA

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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