

# 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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