



Automation Engineer II

Company Description

CareDx, Inc., headquartered in Brisbane, California, is a global molecular diagnostics company focused on the discovery, development and commercialization of clinically differentiated, high-value diagnostic solutions for transplant patients. CareDx offers AlloMap[®], a gene expression test that aids clinicians in identifying heart transplant patients with stable graft function who have a low probability of moderate to severe acute cellular rejection. CareDx is developing additional products for transplant monitoring using a variety of technologies, including AlloSure[®], a proprietary next-generation sequencing–based test to detect donor-derived cell-free DNA after transplantation.

CareDx, with its presence through Olerup, also develops, manufactures, markets and sells high quality products that increase the chance of successful transplants by facilitating a better match between a donor and a recipient of stem cells and organs. Olerup SSP[®] is a set of HLA typing used prior to hematopoietic stem cell/bone marrow transplantation and organ transplantation. XM-ONE[®] is the first standardized test that quickly identifies a patient’s antigens against HLA Class I, Class II or antibodies against a donor’s endothelium. For more information, please visit: www.CareDx.com.

I. Specifications

Title:	Automation Engineer II
Manager:	Manager, Automation Engineering
FLSA:	Exempt
Classification:	Regular Full Time
Department:	Automation Engineering
Location:	Brisbane, CA
Management:	N/A

II. General Description

The Automation Engineer II will work in the Automation group supporting and validating Next Generation Sequencing (NGS) equipment and liquid handling instruments for our commercial laboratories. The successful candidate will also work to refine and expand our automated equipment and methodologies. The Automation Engineer II will write and update maintenance SOPs and validation protocols and contribute to improving automation practices and procedures. He/she will utilize statistical techniques to perform complex data analysis. A successful Automation Engineer will understand projects in the context of the overall process and will be integral to their success by taking a cross-functional leadership role in providing automation expertise from project conception to its completion.

Responsibilities include, but not necessarily limited to:

- Provide service support for NGS equipment, including troubleshooting, routine maintenance and calibration

- Provide service support for liquid handling instruments, including troubleshooting, routine maintenance and calibration
- Procure, develop and validate NGS methodologies and equipment for R&D and manufacturing operations
- Expand, refine, and support automated methodologies and equipment in a leading molecular diagnostic laboratory
- May act as a mentor/supervisor to Automation Associates
- Provide training to users for new methods, new user training, and for entry level Automation Associates

III. Work Environment:

Travel is not a primary aspect of this position although travel may be requested from time to time. An employee in this position may work in an environment, or visit facilities, in which safety, environmental and health concerns may demand constant attention. Adherence to the Corporate and/or Plant policies, rules, and regulations in these areas is required.

IV. Physical Demands:

The physical demands described here are representative of those that must be met by an employee to successfully perform the essential functions of this job. Reasonable accommodations may be made to enable individuals with disabilities to perform the essential functions.

While performing the duties of this job, the employee is regularly required to use hands and fingers, handle or feel, and talk or hear. The employee frequently is required to sit, stand and walk. There will be periods of time during the workday where the employee will be sitting for 3-4 hours in a row. Regular use of hands to operate office equipment and type on the keyboard is required. The employee must occasionally lift and/or move up to 50 pounds. Specific vision abilities required by this job include close vision, and ability to adjust focus. While working in the reference laboratory, incumbents may be exposed to excessive noise, chemicals and solvents, biological agents, mechanical/electrical hazards, and bloodborne pathogens.

V. Qualifications:

- BS in Engineering, Chemistry, or Life Science
- A minimum 8 years of experience working with NGS, liquid handling and other automated instrumentation.
- Experience working in a regulated laboratory environment. Including the following; design control, performing verification and validation studies and experience with process development.
- Ability and desire to work in a team environment supporting both manufacturing operations and regulated diagnostic laboratories
- Demonstrate working knowledge of scientific principles; strong analytical and troubleshooting skills required
- Excellent verbal and written communication skills required; experience writing Standard Operating Procedures and other technical reports strongly preferred.
- Strong computer skills, including proficiency in a MS Office, general purpose programming languages (e.g. VB/VBA, Python, Perl, R, C++), and NGS related software and computational tools.
- Proven mastery of programming environments and support on numerous instrument platforms (i.e., Illumina, Beckman, Tecan and Agilent). This includes the ability to provide

advanced technical support and error recovery as well as identifying creative solutions to software or hardware failures.

- Experience working with Information Technology infrastructure associated with NGS operations is a plus.

To apply: Submit cover letter and resume to HR@caredx.com