

Design Engineer Mechatronics – GE Posting

Posted Position Title

Design Engineer (Mechatronics)

About Us

GE works on things that matter. The best people and the best technologies taking on the toughest challenges. Finding solutions in energy, health and home, transportation and finance. Building, powering, moving and curing the world. Not just imagining. Doing. GE works. For more information, visit the company's website at www.ge.com

GE Healthcare Life Sciences provides products and services used as tools for biopharmaceutical manufacturing, drug discovery and the latest in cellular technologies, thereby enabling our customers around the world to be more productive, effective and creative. Our motivation is to create better health for more people. Through our five decades of supporting the biopharmaceutical industry and its research partners to become more productive, we are helping to reduce costs, increase access and improve quality in the healthcare system. We use our expertise and know-how in imaginative ways to work with our customers to provide what's needed today and create products and solutions to enable the medical treatments of tomorrow. We add value to our customers by:

- Providing cutting-edge research tools that give deeper insights into cell function to enable disease diagnosis and the development of treatments.
- Enabling manufacturing productivity: we provide solutions for the entire bioprocess workflow (i.e. start-to-finish bioprocessing) helping our customers to develop and manufacture biopharmaceuticals more efficiently.
- Providing high quality support and maintenance services.

We are the home of many famous brands, including Whatman, Amersham, Biacore, WAVE, Applied Precision and more. Learn more about GE Healthcare Life Sciences

Role Summary/Purpose

You will be part of a diverse bioengineering team focused on defining and executing process optimization and technology development projects. You will be responsible for overseeing the design and prototyping of innovative tools, technologies, and devices to address cell manufacturing workflow challenges and be a leader in bringing new and innovative products to market to enable life-saving advances in cell and gene therapy and regenerative medicine.

Essential Responsibilities

- Translate user requirements into system requirement specifications.
- Device concept development, design preparation, initial prototyping, and coordination of outsourced prototyping.
- Verification and validation activities.

- Provide deep technical expertise and execution across multiple projects.
- Engage external customers and partners to understand and overcome workflow challenges.
- Work closely with biologists, chemists and electrical and mechanical engineers in the development of mechatronic solutions to cell and gene therapy industry challenges.
- Drive effective communication across the organization and leadership team.
- Work with leadership to identify and prioritize future project opportunities.
- Identify, evaluate and recommend new and existing technologies to improve workflows.
- Demonstrate continuous integrity, credibility, and positivity and motivate others to do the same.
- Continuously grow and adapt in a fast-moving field to keep yourself and the organization at the forefront of the cell and gene therapy and regenerative medicine fields.
- Using 2D and 3D CAD software, prepare designs, engineering analysis, detailed drawings and assembly models complete with dimensions and tolerance.
- Revise and alter detailed and layout drawings to conform to engineering designs.
- Direct the construction and testing of prototype and pilot products and conduct analysis of the test results.
- Interface directly with other engineering functions to clarify design and drawing questions and assist prototype manufacturing n trouble shooting design issues.

Qualifications/Requirements

- Ph.D., Master's with 4+ years of experience, or Bachelor's with 6+ years of experience with a degree in mechanical engineering, electrical engineering, or a related field.
- Demonstrated 3D modeling expertise.
- Demonstrated success in engineering development and the design/integration of product requirement specifications (user, system, usability).
- Experience with procurement, buildup and testing of prototype hardware, instrumentation and software.
- Experience in conceiving, developing and carrying out experiments in component hardware and transferring component level tests into full scale hardware solutions, including verification/validation planning and execution.
- Strong English written and oral communication.
- Working knowledge of analytical and experimental methods for development of dynamic systems, process systems, devices, and/or robotics.
- Experience in analysis and design of machine components, motion and process control hardware, and software and firmware design.

Desired Characteristics

- Industry design experience with medical devices across the full product development life cycle.
- Familiarity with cell and gene therapy or regenerative medicine.
- Familiarity with the applicable regulatory frameworks and requirements for cell and gene therapy and regenerative medicine, such as cGMP, ISO, or medical device development.
- Strong English written and oral communication.
- Independent, detail-oriented, self-starter with excellent analytical skills and the ability to multitask and succeed in a team environment.
- Demonstrated initiative and the ability to deliver high quality outcomes.
- Intermediate-to-advanced proficiency with computer productivity software (e.g. MS Office) and a range of technical applications (e.g. JMP, FlowJo, Matlab, SolidWorks, etc.). Experience with reliability measures and tools.
- Experience in structural engineering, analysis and verification of mechanical structures, fluid flow, thermal analysis and/or electro/opto-mechanical assemblies.

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