

Development Engineer / Scientist Media Formulation – GE Posting

Posted Position Title

Development Engineer/Scientist - Analytical Metabolomics

About Us

GE is the world's Digital Industrial Company, transforming industry with software-defined machines and solutions that are connected, responsive and predictive. Through our people, leadership development, services, technology and scale, GE delivers better outcomes for global customers by speaking the language of industry.

In this position, the successful candidate will work in a matrix environment, across a collection of projects for internal and external customers. This posting will be filled as soon as an exceptional candidate is identified.

Role Summary/Purpose

You will be part of a bioengineering team defining & executing process optimization & technology development projects within the cell & gene therapy & regenerative medicine fields. You will be responsible for the rational design, optimization and characterization of cell culture media. The DES will define a solution space for media composition based on deep understanding of metabolic biochemistry, media component interactions, growth factor requirements, and advanced analytical outputs.

Essential Responsibilities

- Perform media formulation research and development to optimize cultivation of therapeutic cells.
- Define media component solution space through DOE/DSD methodology.
- Responsible for advanced analytical instrumentation and development of operational SOP's, protocols and reports.
- Performs cell culture as required for key experimental objectives.
- Contribute scientific expertise, propose new ideas and product concepts targeting the research market, drawn from scientific literature and personal experience.
- Supports other R&D projects within his/her expertise and experience. Develops and improves new skills and knowledge necessary to successfully support assigned projects.
- Demonstrate integrity, credibility and a positive attitude in daily performance so as to motivate others to do the same.
- Assist and train others as necessary.
- Other duties as required.

Qualifications/Requirements

- Ph.D. in a relevant field with 3 or more years of metabolomics experience. M.Sc. level candidates with significant metabolic biochemistry and instrumentation experience are also encouraged to apply.
- Experience with advanced analytical instrumentation is required (e.g., LC-MS/MS, Raman spectroscopy).
- Experience with advanced statistical design and analysis is required.

Desired Characteristics

- Systems biology, metabolic modelling/flux analysis, or similar experience is highly desirable.
- High throughput screening experience is an asset.
- Industry experience in cell and gene therapy or regenerative medicine.
- Hands-on experience working with human primary and/or stem cell cultures.
- Understanding of developmental biology and factors controlling human cell fate is an asset.
- Familiarity with the applicable regulatory frameworks and requirements for cell and gene therapy and regenerative medicine, such as cGMP, ISO, or medical device development.
- Experience with cell characterization (microscopy, cell counting, flow cytometry, etc).
- Self-directed and self-motivated. Demonstrated ability to work in a team environment as well as independently.
- Excellent communication and intrapersonal skills are required.
- Must be flexible to support research activities outside of normal business hours as needed.

Work Environment

- CL2 laboratory. Possible exposure to chemical, biological or other hazardous substances.
- Working at a computer for data entry and analysis.
- May be required to be available outside of standard working hours.

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