



JOB DESCRIPTION

RESEARCH AND DEVELOPMENT DESIGN ENGINEER

Position

Reporting functionally to the Director of Engineering, the Research and Development Design Engineer is responsible for serving as a member of the engineering team to achieve milestones in the key areas of design, development, assembly, validation, and performance testing of the Company's engineered (optical, mechanical, electrical) and array products and components.

Responsibilities

The Research and Development Design Engineer will collaborate with other members of the engineering team in the areas of product design, development, assembly, verification and validation testing, installation, quality assurance and quality control, troubleshooting and technical support for automated platforms and array products.

- Lead mechanical design efforts during research and development of both automated instrument platforms and compatible consumable array products
- Employ software packages such as SolidWorks to design instrumentation components, manufacturing fixtures, labware consumables, and other hardware
- Prototype hardware comprising fabrication methods such as CNC milling, 3D printing, and injection molding
- Assemble, test, and optimize prototypes of electro-mechanical sub-assemblies for use in automated platforms
- Contribute to the development of user requirements and specifications for hardware and software components related to automated platforms and array products
- Collaborate on drafting protocols and procedures for proof-of-principle, verification, and validation testing for products under development, as well as assembly and release testing for manufactured products
- Execute protocols and procedures, draft reports, and present results of testing to engineering team
- Assist in the identification of new product applications and the preparation of the related scientific cases with respect to electro-mechanical products and integrated systems
- Assist in the creation of scientific, technical, and marketing materials to distribute to potential customers

Candidate Requirements

- B.S. in engineering discipline – mechanical preferred, biomedical or electrical acceptable
- Experience with SolidWorks
- Experience with design for 3D printing and injection molding
- Proficiency using Matlab, Excel, and/or other data analysis software package
- Demonstrated technical writing skills
- Proficiency with Microsoft Office (Word, Excel, PowerPoint, Outlook)
- Some travel required
- Must be able to work in the U.S.

Cell Microsystems is an early growth stage company located in Research Triangle Park, NC, and develops and commercializes products based on the CellRaft™ Technology that enable the isolation and recovery of viable single cells for downstream molecular analysis or single cell propagation and gene editing.

Interested candidates should send their resume and a brief statement of interest to info@cellmicrosystems.com.