



COMPANY PROFILE:

For more than 80 years, the name Terumo® has been synonymous with innovative medical devices. From its start as a manufacturer of clinical thermometers, Terumo has grown worldwide to a position of leadership in such areas as hollow fiber technology, blood management systems, and the creation of new technologies in endovascular therapy.

Terumo has distinguished itself as a high quality manufacturer of medical products, operating four factories and 38 sales branches in Japan, as well as 31 other locations. The company generates annual sales of approximately \$6 billion and employs 18,000 people worldwide.

Terumo is an Equal Opportunity Employer

LOCATION: Elkton, Maryland

TITLE: NPD Sr. Engineer 1 – Materials and Coatings

BASIC RESPONSIBILITIES:

Job Summary:

The NPD Sr. Engineer 1 – Materials and Coatings position is specifically accountable for the product design, development, and technical problem solving as it relates to the development of new products. This position leads and executes the Design for Excellence (DFX) aspect of the processes and product design.

Experience and Background:

- Understanding of polymer structure/property/process relationships
- Knowledge of polymers/plastics/resin compounds and nonlinear mechanical properties of plastics
- Working knowledge of mechanic and analytical testing methodologies (Intron, MTS, DMA, rheology, DSC, TGA, FTIR, SEM, GPC)
- Ability to develop test methods and reports/technical writing
- Work with software for analytical/data interpretation; macros in excel, lab software, generate a nominal and bounds for expected material behavior
- Nice to have - Direct experience in medical device development, design controls, specific to catheter/sheaths and polymeric materials
- Nice to have - experience with extrusion/molding at pilot scale and/or production-scale, CAD, Gage R&R

Job Details:

- Provide engineering leadership in the design, development, and qualification of products and processes. This may include feasibility studies, designing & implementing evaluations (DOE's) and providing technical input for justification of project and design. Responsible for contributing to the DHF and regulatory submittals, creating SOP's, and for providing training to ensure proper design transfer.
- Implement technical strategy and implementation of projects to design, develop, and qualify new processes for manufacturing new products or improving existing products / processes.
- Perform as a Technical Lead on a large project to lead and implement the technical aspects involving coordination with other departments, design, prototype fabrication and/or testing. Projects & tasks to be completed include organizing and leading members of the D&T group, planning and scheduling technical activities, coordinating technical resources (personnel, materials, time, suppliers), and preparing proper documentation.
- Develop and execute projects in accordance with Terumo new product development process in full compliance with all design control, quality, and company regulations and national and international

regulatory body requirements. This activity includes, but is not limited to, the understanding of change control, validation, documentation practices, process control and design control requirements.

- Contribute to project performance team meetings on behalf of the project technical team in order to provide ideas, methods, or designs for performance improvement.
- Prepare and present product designs, production processes and related activities to upper management.
- Communicate with various levels in other sections within Terumo for related projects or progress (i.e. daily interactions with managers, supervisors, NPD engineers and technicians, production personnel, purchasing, logistics, etc...) and with counterparts at other Terumo locations.
- Implement product performance and design strategies. Define and write test plans/protocols, perform testing, analyze results, suggest recommendations and/or conclusions and document clearly and completely in technical reports. These reports could be to support product development prototype evaluations, or could be submitted to the FDA to support new product clearance or claims.
- Performs other job related duties assigned.

Working Conditions:

This position will be located in the Terumo manufacturing facility located in Elkton, MD. The position will perform required duties in an office environment, the NPD Laboratory and sometimes within manufacturing areas.

QUALIFICATIONS:

Background Experience

- BS or higher in Materials, Chemical, Mechanical, Biomedical
- 8+ years of experience
- Experience with contributing to strategies for product design and development based on customer needs and Design Input. Demonstrated design and comparative analysis skills.
- Demonstrated successful decision making skills. Experience with performing comparative analyses on alternate product designs, component sources, process methods, or test methods and make a recommendation.
- Demonstrated analytical and logical problem solving abilities. Strong troubleshooting skills for solving process and design issues during product development.
- Demonstrated ability to distill complex technical information and explain to a much less technical audience. Experience in presenting and explaining to upper/executive management. (verbal communication)
- Demonstrated strong technical writing, validation, SOP and presentation skills. (written communication)
- Understanding of business principles in product development financing and equipment strategies.