



Corporate Office:  
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Phone: 864.328.0008  
[www.poly-med.com](http://www.poly-med.com)

#### ***Part A - General Position Information***

Job Title: <b>Polymer Chemist</b>	Department Name: <b>Engineering Solutions</b>	Reports to: <b>Manager, Engineering Solutions</b>	FLSA Status: <b>Exempt</b>
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#### ***Part B – Company Information***

##### **About Us:**

Poly-Med is the leading developer of bioresorbable polymers and fibers. We help innovative medical device companies focused on improving patient outcomes. Poly-Med designs, develops and manufactures superior materials to get customer products to market in the most efficient manner with the greatest improvement to quality of life. Located in Anderson, South Carolina, Poly-Med, Inc. has been recognized as a leader in the industry for over 20 years. Poly-Med continues to grow in a multitude of medical device modalities. Our novel materials are key in actively enabling products ranging from vascular stents, hernia meshes, dental delivery systems, dental hygiene, and a variety of wound closure applications in the worldwide medical device market.

For additional information, visit our website at [www.Poly-Med.com](http://www.Poly-Med.com).

##### **Our Team:**

We employ a widely diverse team comprised of experts from material science, chemical engineering, mechanical engineering, bioengineering, biology, business marketing, and project management to create a work environment focused on solving tough medically related problems. Our team is energetic, resourceful, and, above all, collaborative. We are searching for like-minded talent to build on our success and continue our quest to improve patient outcomes through novel polymeric and drug delivery systems.

#### ***Part C - Position Information***

##### **Description:**

This position involves developing and validating the manufacturing process for various degradable polymers as well as executing product development tasks. This is a full-time, on-site position. This role is an Independent Contributor role. There are no direct reports for this position. Interaction is potentially with all levels of the organization.

##### **Responsibilities:**

- Execute the synthesis of degradable polymers for internal R&D applications and external customers
- Develop work instructions for the synthesis of degradable polymer R&D and production
- Write and execute validation protocols for pilot and production batches.
- Assist with the research and development of approved and assigned projects
- Assist with the development and validation of analytical methods for characterization of polymers
- Evaluates suitability of new raw materials for new or existing products.
- Execute analytical assays for new raw materials.
- Assists in training personnel for transfer of methods from Engineering Solutions to Quality Control.
- Preparing laboratory batches as needed
- Troubleshoot issues during prototype and commercial production; act as first responder to issues
- Build and test prototypes, both hands-on and via coordination with support functions and demonstrate full knowledge of the documentation that governs these operations. (e.g. Standard Operating Procedures, Manufacturing Instructions, Log Books, etc.)
- Assists in the choice of components for assigned projects as well as the design and testing of the new components
- Assists in the scale-up of new or modified formulations to production-size batches and troubleshooting in Manufacturing at the request of operations management
- Assists Quality and Regulatory Affairs in providing required documentation for submissions.
- Assist with design of experiments

- Perform data analysis, determine root cause of failures, and provide recommendations to engineering staff
- Plan and oversee execution of stability studies
- Collaborate with operations, quality control, engineering, facilities and maintenance personnel to realize goals
- Partner with team to realize scale-up goals through new equipment and process introductions
- Execute equipment and process qualifications following IQ/OQ/PQ methodology
- Create and maintain clear documentation of experiments and manufacturing process instructions
- Participate in continuous improvement projects
- Record and maintain documentation in support of Quality System
- Additional duties and responsibilities as assigned by management.

**Required/Preferable Knowledge, Skills and Abilities**

- Candidate must have bench synthesis experience
- Understanding of polymer synthesis, scale-up and process validation.
- Ability to handle confidential business information.
- Understanding of statistical methods and associated statistical analysis software.
- Understanding of cause-effect relations between process inputs and product specifications.
- Understanding of the effect of a process on downstream steps or customer needs.
- Ability to design experiments and evaluate data.
- Ability to be a team player.
- Utilization of Microsoft Office (Excel, Word, Powerpoint) for project execution and internal communication purposes.

**Education/Experience Requirements:**

**Required-** Bachelor's Degree in Materials Science, Polymer and Fiber Chemistry, Chemical Engineering, or Chemistry with 3-5 years industry experience.

**Environmental Requirements:**

- Must be able to adapt to indoor work environment.

**Physical Requirements:**

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| <input checked="" type="checkbox"/> Sitting  |  |
| <input checked="" type="checkbox"/> Standing   |  |
| <input checked="" type="checkbox"/> Walking  |  |
| <input checked="" type="checkbox"/> Climbing/Balancing   |  |
| <input checked="" type="checkbox"/> Reaching – with Arms and Hands                             |  |
| <input checked="" type="checkbox"/> Stooping/Kneeling/Crouching/Crawling                       |  |
| <input checked="" type="checkbox"/> Talking  |  |
| <input checked="" type="checkbox"/> Hearing  |  |
| <input checked="" type="checkbox"/> Feeling/Touching   |  |
| <input checked="" type="checkbox"/> Vision – Close, Peripheral, Depth, Ability to Adjust Focus |  |
| <input type="checkbox"/> Other:  |  |

**If you are interested in working with us, please email your resume; tell us a little about who you are and what makes you want to join our team to recruiting@poly-med.com.**