# General

**Job Title:** Senior Research Scientist – Polymer Synthesis  
**Job Grade:**  
**Department:** Vision Care Research  
**Reports to (Job Title):** Research Fellow, Polymer Research

## Job Purpose

The objective of this role is to develop a strong internal competence in the area of polymer design, synthesis, characterization and formulation and to use this competence to develop novel and differentiated Contact Lens and Contact Lens Care materials.

## Major Accountabilities

- Perform lab-scale polymer synthesis/ modification, purification, formulation and characterization as assigned/ required
- Develop expertise in both, materials technology and lens production process, to insure compatibility between material and process.
- Develop an in-depth understanding of structure/ property relationship in polymers, specifically the relationship between molecular architecture/morphology and bulk properties.
- Handle, use, store and dispose all lab/ used chemicals as outlined in MSDS, SOP and other company prescribed, state and federal guidelines. Also, comply with all company established Health, Safety and Environment operational requirements
- Use relevant statistical techniques/ methods to plan and execute experiments and to analyze experimental data
- Document details on all planned and completed experiments including raw materials, experimental plans and procedures, results, data analyses and conclusions in company approved media such as lab notebooks, electronic databases, etc.
- File all new material concepts including monomer/ polymer designs, syntheses, purification and formulation through invention disclosures and support patent filings as required to protect intellectual property
- Provide timely communication on planned and completed work to the project & functional team members and leadership through written reports and presentations
- Develop an external network of research partners/ collaborators to complement internal competencies in the above mentioned research areas
- Actively monitor competitor activities and patent & scientific literature for significant technical developments relevant to CL and CLC products

## Key Performance Indicators

- **Competence/ Knowledge** – Assessment based on (a) knowledge and application of relevant chemistries and syntheses methods (b) ability to understand contact lens material, processing and testing needs and requirements (c) expertise developed in the following areas: materials technology and lens production process; in-depth understanding of compatibility between material and lens production process (d) knowledge of structure/ property relationship in polymers, specifically the relationship between molecular architecture/morphology and bulk properties and (e) ability to contribute to contact lens materials innovation
- **Problem Solving** – Assessment based on use of innovative scientific approaches to solve specific technical problems/ issues
- **Research Quality** – Assessment based on (a) use of good science (e. g. statistical methods) to plan and execute experiments and to analyze data (b) accuracy and reliability of generated data and (c) ability to draw objective conclusions based on data
- **Safety Performance** – Assessment based on (a) safe work hours (without lost time incidents/ accidents) and (b) compliance to established HSE guidelines, policies and procedures
- **Communication** – Assessment based on ability to (a) write timely, clear and succinct technical reports on planned and completed work and (b) to present the same at project team meetings
- **Productivity** – Assessment based on multi-tasking ability, volume of work, time management, etc.
- **Level of Independence** – Assessment based on the level of supervision required to perform assigned responsibilities

### Background

**Education:**

Ph. D. in Chemistry, Polymer Chemistry or Organic Chemistry

**Experience:**

- 3 - 10 years of work experience in the area of polymer design, synthesis and characterization is desired.
- Knowledgeable in all contact lens characterization tools and methods: Surface, bulk, thermal, mechanical, etc.
- Excellent technical communication skills
- Experience in the area of medical device research is a plus

### Contact Person

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