

## Research Engineer/Post-Doctoral Fellow for Biodegradable Plastics

### The Company

We are a polymer product development and research company looking to maintain a reliable system for delivering trusted chemical analysis and material development. With access to multiple lab facilities, we provide a *one-stop-shop* approach to managing research and development. Our innovations have provided value for our customers and their employees. It is a value measured in avoided costs, productivity gains, extension of the service life of the facilities, enhanced performance, optimized maintenances, and energy efficiency. Our main goal is to bring innovation to the polymer science industry by catapulting lab research into large scale industrialization. We want to bring your idea to **life!** This all happens at the heart of our testing and research laboratory.

### Research Program:

Applicants are invited for a twelve (12) month research intensive fellowship program at Oligomaster designed to offer fellows a hands-on bench scientific experience while developing valuable and lifelong career advancement skills in Oligomaster and McMaster University's highly advanced and innovative research environment.

In addition to contributing both intellectually and experimentally to polymer innovation programs with focus on formulation, polymer processing, and product testing, fellows will receive on-the-job training supplemented with customized learning and development initiatives to advance the understanding of the product development lifecycle and personal skill acquisition.

### Key Responsibilities:

- Engage meaningfully with hands-on, experiential learning opportunities with an outlook on transferrable competencies
- Leveraging past scientific experience, design, execute and drive key cutting edge R&D initiatives within Oligomaster's programs.
- Prepare data for presentation at lab and departmental meetings and/or conferences.
- Participate in manuscript and patent application writing, as appropriate.
- Develop professional soft skills critical to success within & outside Oligomaster.
- Broaden professional network within the material science industry.

### **Research Opportunities in Functional Areas:**

We are seeking a passionate postdoctoral fellow or research scientist with experience in developing polymer formulations. The ideal candidate for this position will have experience working with product development in one of the areas, thermoplastic polymers/coatings/bioplastics. Experience using one or more of the analytical tools such as HPLC, LC-MS, particle-size analysis, DSC, TGA, FTIR, twin-screw extruder, compounder, two-roll mill, rotational mold is beneficial. Successful fellow in this position should be able to establish new formulation/polymer process capabilities and has the ability to develop test methods to validate product, e.g. HPLC, LC/MS, particle-size analysis, DSC, TGA, FTIR, tensile strength, spectrophotometric analysis, any ASTM and ISO testing.

### **Qualifications**

- Recently completed a MASc, MSc, or PhD in a relevant field from an accredited graduate level institution.
- The successful candidate should have a strong interest and demonstrated deep understanding and experience in the specified field of research.
- The successful candidate is expected to understand the assigned project and work independently, propose experimental hypotheses, design experimental questions and protocols, and plan, coordinate, conduct and report on assigned research projects.
- Excellent communication and writing skills, as well as a team-oriented mindset for collaborative research, are critical.
- Technical proficiency, scientific creativity, independent thought, and ability to effectively collaborate with others with multiple scientific disciplines.

*Only local residents of Canada are considered at this time.*

If you are interested in making your contribution at Oligomaster, please send your resume and cover letter to [jobs@oligomaster.com](mailto:jobs@oligomaster.com).