



## Extrusion Specialist

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### The Company

ECOSYNTHETIX engages in the development, manufacture and commercialization of bio-based technologies to replace petroleum-based industrial products. We have recently opened our Global Centre of Innovation in Burlington, Ontario, which is now home to our product development and applications testing laboratories and our state-of-the-art pilot plant. We are seeking to add to our dynamic team of professionals who share a passion for developing and commercializing sustainable, bio-based chemistries and polymers.

### The Position

Reporting to the VP Manufacturing, the Extrusion Specialist is responsible for developing new and improved products and processes using the reactive twin screw extrusion process installed in our new Global Center of Innovation. This hands-on position will provide technical support and operating knowledge of the extrusion process and will play a lead role in all extrusion functions including developing, validating and implementing new equipment and techniques to develop the next generation of EcoSphere<sup>®</sup> biolatex<sup>®</sup> products. Together with a cross functional team, the Extrusion Specialist will develop new products and processes that will be developed in pilot operations and then transferred to the manufacturing plant level. The position will also negotiate & managing business relationships with external consultants, equipment manufactures and new technologies that may enhance the quality and performance of the manufacturing process.

### Key Responsibilities

- Develop a comprehensive and aligned product and process development plan.
- Implement and oversee safe operating practices for the extrusion process.
- Implement standards for sample preparation and retention.
- Develop and oversee a master process database mapping machine conditions with sample retains.
- Create reports, presentations and papers to define and demonstrate the interworking variables within the extrusion process to guide future development.
- Establish, develop, and maintain relationships with 3<sup>rd</sup> party equipment and raw material vendors.
- Work with R&D, Manufacturing and Product Development to create next generation products and processes.
- Develop, manage, motivate, and retain department staff as our team grows.
- Analyze suppliers and manage relations to negotiate favorable contracts.
- Support the Manufacturing organization by providing engineering assistance as appropriate for field related issues (global toll manufacturing plants).
- Facilitate continuous improvement initiatives with toll production partners to ensure margin enhancement and operation excellence targets are met.
- Make decisions for the organization by assessing ROI, risk, and cost/benefit.

### Job Requirements

- University degree or college diploma in Chemistry, Chemical/Mechanical/Electrical Engineering
- Minimum of 10+ years of experience with reactive twin screw extrusion technology (Buhler preferred)
- Highly proficient with Statistics, Modeling & Design of Experiments (DOE) methodologies and relevant software
- Experience with rapid proto-typing, lean manufacturing and six sigma methodologies
- Exceptional problem solving, decision-making and analytical skills
- Strong leadership, project management & time management skills
- Passion for Cleantech/Biomaterials, and solid relationships with network of colleagues
- Exceptional written and verbal communication skills, including report writing
- Solid research skills, investigating relevant patents, competitive and complementary technologies
- Highly proficient with computer applications (Outlook, Excel, Word, PowerPoint, SPC & DOE Software)