



## Manager Analytical Services

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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 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 Director of Product Development, the Manager Analytical Services is responsible for the management, implementation and method development of all testing protocols in support of Product Development, R&D and Quality Assurance and manufacturing. R&D will include projects focused in the area of bio-based polymers and chemistries for various industrial applications. These projects will expand the **ECOSYNTHETIX** portfolio offerings and strengthen the EcoSphere<sup>®</sup> biolatex<sup>®</sup> binder and EcoMer<sup>®</sup> technology platforms.

### The Responsibilities

- Management, implementation and method development of all quality assurance and product development needs in support of R&D and manufacturing
- Manages, maintains and updates current laboratory equipment and testing procedures
- Develops and implements new analytical techniques and equipment in support of bio-based polymers for paper coating, construction and other industrial applications
- Documents statistically valid QA and other analytical test methods and test results in a timely manner
- Supports technical service projects and customer product development projects
- Supports the technology transfer from laboratory to commercial manufacturing operations
- Keeps abreast of pertinent new developments and provides executive summaries and comments with regards to strategic impact and direction
- Presents original research data at industry meetings, writes scientific papers for publication in peer-reviewed journals
- Directs the activities of technicians engaged in development projects

### The Candidate

- Requires Ph.D. in Chemistry
- Has relevant experience in an industrial research environment in the area of carbohydrate research and quality assurance (minimum 5 years)
- Broad experience with analytical testing, method development and state-of-the-art equipment
- In-depth knowledge of carbohydrate chemistry and analysis techniques is critical, including GLC, HPLC and other chromatography techniques, mass spectrometry, GPC, etc.
- Experience with all key optical microscopic equipment (SEM, TEM, etc.) and polymer characterization techniques, including DSC, TGA, DMA, etc., as well as polymer viscometry and rheological equipment
- Combination of theoretical savvy and hands-on skills, and a proven ability to effectively implement and maintain advanced analytical equipment
- Experience with laboratory, pilot plant and manufacturing safety management will be an asset
- Strong problem-solving skills and proven project management skills
- Exceptional written and verbal communication skills, including report writing
- Proficient with computer applications (Outlook, Excel, Word, PowerPoint, etc.)