

## Engineering Director, Advonex International Corporation

Brockville, ON

### Skill Level:

Experienced Managerial

### Position Type:

Full Time

### Company:

**Advonex® International** develops and markets sustainable hydrocarbons from renewable, bio-based feedstocks for high-value chemical applications. The company produces lubricants, waxes, mineral oils derived from plants or waste resources that deliver superior performance to ingredients traditionally derived from petroleum. Our customers get a partner that is committed to improving their business and products while reducing dependence and reliance on petroleum. We help customers change the future for the better through renewable hydrocarbons. Only by dedicating ourselves to challenging and impactful work and delivering real market value can we change the world. Our science enables new revenue streams for farmers, reduces reliance on petroleum resulting in a better world.

### Our Science. Your Business. Better World.

The Company's first product is Entrada®-BASE - a replacement for base oils used to produce automotive and industrial lubricants. Entrada-BASE enables formulators to produce lubricants with higher viscosity index, lower volatility and lower friction coefficient than petroleum base oils. Furthermore, it is easier to formulate into motor oils than poly-alpha-olefins (PAOs) and is more cost-effective. No other biologically-derived lubricant can deliver that level of performance. Advonex has produced Entrada-BASE from soybean, canola, used cooking oil, coconut, palm, distiller's corn oil, tallow and lard with equal success. In short, Entrada-BASE delivers superior performance at a lower cost and while reducing GHG emissions.

Advonex International is poised to scale up production and build commercial facilities that will address the growing demand for high-performance sustainable products and are looking to expand the team with individuals who not only have the knowledge and experience but who also have an entrepreneurial spirit and drive that will help Advonex International get to the next level of growth.

### Position Overview:

The successful candidate will manage the activities of an engineering team consisting of internal staff and external contractors to design, construct and operate pilot-scale and full-scale facilities to produce lubricant and wax products for customers. Engineering Director will work closely with the R&D team to develop bench-scale production processes that can be effectively translated into production. The candidate will be familiar with chemical processes, industrial-scale process equipment, health and safety procedures, familiar with writing SOPs, equipment installation and operation. In addition the candidate will work with scientist & engineers to develop models of processes to predict economic viability in a production environment. The individual will work with internal and external teams to establish budget, timelines, and milestones, track progress, and report to senior management, directors and customers.

### Reporting to:

President

**Responsibilities:**

- Supervise and lead engineers, scientists and technicians who design machinery, plan and develop projects, and oversee production and quality control.
- Check technical accuracy of work.
- Manage installation, operation and troubleshooting of pilot and production facilities.
- Develop project and production cost estimates.
- Direct and coordinate production, operations, quality assurance, testing, or maintenance in industrial plants.
- Oversee the research and development of new products and procedures. Coordinate activities with R&D team to achieve production results.
- Hire, train, and mentor other engineers and supporting staff.
- Write performance reviews and solve internal issues.
- Discuss and lay out project specifications.
- Support business development and marketing efforts through proposal development.
- Make detailed plans to accomplish goals.
- Review, approve, or modify product designs.
- Prepare budgets, bids, and contracts.
- Negotiate, review and recommend external research & engineering contracts.
- Approve expenditures.
- Draft proposals and reports for clients.
- Improve manufacturing processes and advance scientific research.
- Develop overall concepts for a new product.
- Establish administrative policies, procedures, and standards.
- Coordinate activities of unit with other units or organizations.
- Confer with higher levels of management.
- Set, manage and meet aggressive priorities and schedules.
- Provide timely project reports, presentations, other documentations as required to customers, senior management and Board of Directors.

**Qualifications:**

- Advanced degree in chemistry, chemical engineering, or related discipline.
- 5+ years' experience in a supervisory role in an entrepreneurial setting.
- Deep knowledge of organic process sciences and engineering.
- Demonstrated track record in developing and scaling up processes/technologies from lab scale to pilot plant and/or production scale.
- P. Eng designation is desirable.
- Ability to develop technically creative solutions. Excellent problem-solving skills.
- Can work independently and as a part of an interdisciplinary, diverse team.
- Good computer, verbal and written communication skills.

**Working Conditions:**

Primarily in an office environment. Will be expected to travel as needed to company pilot and production sites. Periodic weekend or evening work is expected.

Send resume and salary history to [hr@advonexintl.com](mailto:hr@advonexintl.com) with "Engineer Director" in the subject line.

**No placement agency referrals will be accepted.**