



Chemical or Process Engineer

Generated on 9-3-2023 for American Peat Technology, LLC

Summary

Job Title

Chemical or Process Engineer

Department

Research and Development

Position Description

American Peat Technology is seeking a chemical or process engineer to support ongoing and new operations. Our ideal candidate is a curious, innovative, and disciplined scientist who can take a project from conception to operation. Many of our new projects focus on extraction techniques using novel methods to reclaim valuable minerals from discarded materials.

The schedule for this position is generally Monday through Friday, 8 am to 4:30 pm. Other days and hours are occasionally required.

This position starts at \$55,000/year with immediate opportunities to advance.

APT offers PTO, a medical and dental plan, matching 401K and charitable giving plans and paid volunteer opportunities.

This position reports to the Vice President of Research and Development with day-to-day support of and collaboration with the Senior Research Chemist.

Position Requirements

- 4-year college degree or equivalent work experience in the field of chemical engineering, process engineering or similar field.
- The preferred candidate would be willing to work onsite at Rossburg and Aitkin plant locations, with regular travel required to our Eden Prairie location and off-site work meeting locations as requested.
- Demonstrated ability to maintain strict confidentiality and use good judgment in making independent decisions with a high degree of tact and diplomacy.

- Strong technical skills and proficiency in use of Microsoft office applications including Word, Excel, Visio, and PowerPoint. Ability to learn other software as needed.
 - Demonstrated ability to work with and communicate with individuals at all levels and functions (technical and non-technical), internal and external to the organization.
 - Demonstrated ability to manage multiple projects and deadlines, to coordinate a set of diverse assignments and remain flexible and composed.
 - Excellent anticipatory and organizational skills.
 - Willingness and aptitude to work at the bench for large portions of the workday.
 - Project management and process improvement experience preferred.
 - Experience in mineral extraction techniques, inorganic reactions and mineralogy.
 - Experience in graphite furnace and flame atomic spectroscopy.
 - Experience in colorimetric methods of analysis.
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Key Responsibilities

- Work closely with APT staff to ensure that company goals for production, safety and stewardship are being met.
- Collaborate on the design and implementation of mineral extraction methods using principles of green chemistry and best management practices.
- Carry out bench scale and pilot experiments in extraction and bioleaching.
- Analyze samples with a variety of in-house and outside techniques and methods.
- Collect and organize data using a mix of digital and notebook records.
- Analyze data, present findings, and make recommendations to direct project next steps and inform management decisions.
- Keep meticulous records of materials and costs to estimate production budgets.
- Optimize techniques for maximum recovery and economy.
- Troubleshoot processes and equipment to ensure operable and repeatable techniques.
- Look for ways to minimize waste and increase recovery.
- Collaborate with colleagues to accomplish APT's mission and vision.

About American Peat Technology

American Peat Technology, LLC (APT) is a 20-year-old privately-owned business located in Spencer Township near the City of Aitkin in Central Minnesota and the southwest corner of the State's Iron Range Region. APT's flagship business is the harvesting of peat to produce valuable granular products for the agriculture and water treatment markets. In recent years, APT has expanded the scope of its business to four distinct market areas:

1. Agronomy (row crops, turf, and horticulture)
2. Water treatment
3. Mineral mining and processing
4. Consumer products including spirits and personal care products

With the expanded business focus, APT is committed to growth, both throughout its business interests and among its talented family of employees. APT is committed to its member-investors, employees, customers, and community, led by its Mission, Vision and Values:

Mission

Creating global impact by unlocking the potential of overlooked resources

Vision

Solving the world's gnarliest issues

Values

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| Resourceful – | We are creative problem solvers who use what we have, and a can-do attitude, to overcome any challenge. |
| Industrious – | We work hard and get dirty to make our living. |
| Stewardship – | We serve and care for all that has been entrusted to us: our business, our people, our community, and our planet. |
| Entrepreneurial – | We pursue overlooked opportunities and create new solutions – often from scratch. |

About Aitkin, Minnesota

Aitkin is located about 90 miles west of Duluth and 150 miles north of the Twin Cities of Minneapolis and St. Paul. Aitkin County is known by its tagline, "Naturally Better." Aitkin hosts a wide variety of natural resources and outdoor adventure opportunities in addition to possessing a thriving arts, music and farm-to-table scene.

Located between the Mississippi and Ripple Rivers, Aitkin sits 20 miles from the internationally renowned Cuyuna Lakes Mountain Bike Trails and 35 miles from the Brainerd Lakes Area, which welcomes millions of annual visitors from all over the world.

Check out this [video](#) to learn why it's naturally better in Aitkin County.