



Career Pathway Spotlight: Discover a Career in the Battery Industry Midstream

Discover your career in clean energy!

The **Midstream** sector refines raw battery minerals like lithium and graphite into useable forms. Then, using modern production technology, the raw battery materials are manufactured into individual battery cells. Useful skills and credentials include:

For Technical Careers: technical or mechanical acumen, ability to carry or lift heavy loads, Advanced Manufacturing Certificate (from Manufacturing Skills Institute), and Battery Technician Microcredential (from New Energy New York).

For Engineering Specialties: knowledge of electrochemical processes, knowledge of metallurgy and mineral refining, advanced degree in engineering discipline, degree-appropriate licensure, and specialty training for minerals of interest.

For All: experience in the manufacturing or refining industry, background or general knowledge of mineral refinement and advanced manufacturing, experience working at industrial sites, experience working in noisy environments, and ability to wear Personal Protective Equipment (PPE) for duration of scheduled shift.

SAMPLE ROLES

Technical Careers

- Heavy equipment operators
- Plant operators
- Quality control specialist
- Mechanics and repair workers
- Assembly line workers

Engineering Specialties

- Chemical and electrical engineers
- Metallurgical specialists
- Process engineers
- Industrial hygienists

OCCUPATIONAL SKILLS

- Critical thinking and problem solving
- Reading comprehension and writing ability
- Social awareness and willingness to follow direction
- Communication and team-oriented attitude
- Attention to safety, industrial risks, and process hazards

BENEFITS

These energy industry careers offer:

- Varied opportunities
- Upward and continued career growth
- Work-life balance—your work stays at work
- Opportunities for skill development
- Unionization and leading benefits
- Good pay and interesting work

Required Occupational Skills In the Midstream Sector of the Battery Industry



ACROSS THE ENTIRE BATTERY INDUSTRY

The Midstream battery industry needs employees at all levels, including roles like **HR, electricians, IT support, welders, salespeople, truck drivers, administrative support, foodservice, and custodial support.** Contribute to U.S. national security by bringing your expertise to the battery industry. Pivot to a rewarding and well-paid career in energy!

TECHNICAL CAREERS

What knowledge, skills and abilities will you need to succeed?

- Show up to work on time and be prepared
- Ensure correct assembly of battery cells and pouches and correct adherence to process guidelines
- Read gauges and check equipment
- Follow best practices and comply with regulations to ensure the safety of your work area and your fellow workers
- Adhere to manufacturing guidelines set forth for each individual product or output
- Retain and apply information learned from on-the-job trainings
- Operate production equipment used to stamp, fill, seal, and finish battery cells
- Collect samples of refined product for testing and quality assurance
- Minimize waste, spillage, and contamination during the refining process
- Comply with national and site-specific environmental guidelines
- Operate equipment used for testing of components and finished battery cells
- Always wear appropriate PPE including respirators, personal gas detectors, and hearing protection

ENGINEERING SPECIALTIES

What knowledge, skills and abilities will you need to succeed?

- Review and provide feedback on current site practices
- Provide guidance on manufacturing process and output quality
- Follow best practices and comply with regulations to ensure the safety of your work area and your fellow workers
- Ensure factory operations are in compliance with national and site-specific environmental guidelines
- Act as a subject matter expert for your specific domain, enabling management to make key decisions regarding operation profitability and continuity
- Report workplace safety concerns to appropriate personnel
- Stay current on refresher trainings and continuing education requirements for your professional certifications
- Review assay results to ensure refined material is within specified parameters
- Ensure safe continuation of refinement and cell manufacturing processes per site-specific operations guide
- Understand how the outputs of your business function are used by other sectors of the battery industry
- Use process knowledge to advise and implement improvements in efficiency, output quality, or use of resources



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