

Current and Future Jobs in the Mining Sector

The Canadian mining industry needs 30,000 new workers in the next five years

The BC mining industry needs workers in many occupations.

There are over 120 careers in the mining industry

Having a local, skilled workforce ready at the right time is needed

IN-DEMAND JOBS

- Heavy Equipment Operators
- Truck Drivers
- Underground Miners
- Heavy Duty Equipment Technicians
- Engineers/Geoscientists
- Geologists
- Drillers
- Chemical Technicians
- Environmental, Social, Governance (ESG) jobs

EMERGING JOBS

- Information Management
- Data Analysts and Scientists
- Management Analysts
- Big Data Specialists
- Software and Applications Developers
- Digital Transformation Specialists

ENVIRONMENT, SOCIAL, AND GOVERNANCE JOBS

- Electric Battery Mechanics
- Energy Conservation Technicians
- ESG Auditors
- Traditional Knowledge Specialists
- Environmental Stewards/Monitors
- Community Cultural Directors

TECHNOLOGY APPLICATION

- AI and Machine Learning Specialists
- Robotics Engineers
- Process Automation Specialists
- Remote Sensing Scientists and Technologists



BC Mining Careers Available Now and in the Future

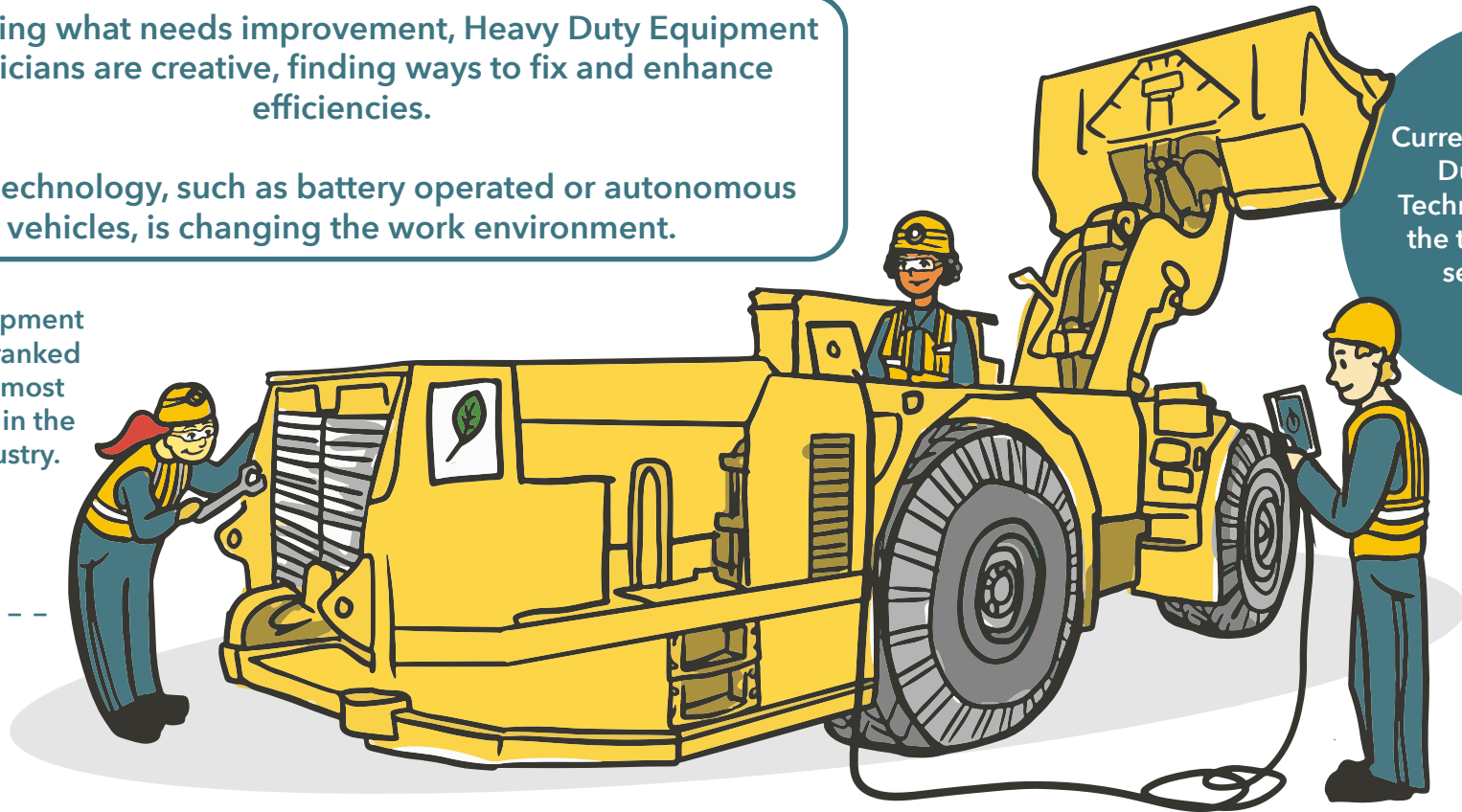
Heavy Duty Equipment Technicians

Discovering what needs improvement, Heavy Duty Equipment Technicians are creative, finding ways to fix and enhance efficiencies.

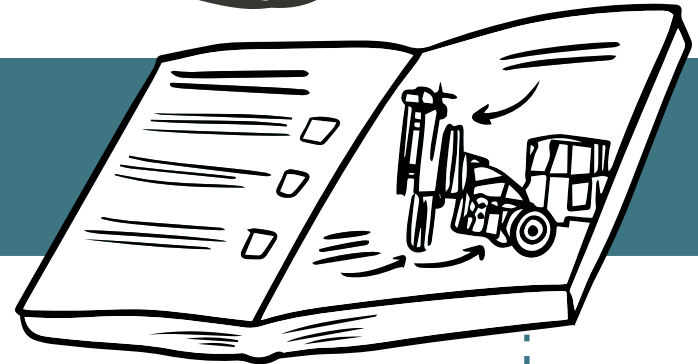
Green technology, such as battery operated or autonomous vehicles, is changing the work environment.

Heavy Duty Equipment Technicians are ranked as a one of the most in-demand jobs in the BC mining industry.

Current and new Heavy Duty Equipment Technicians will need the tools and skills to service the new technology



As the mining industry continues to move towards new technologies there is a need to create and provide the right training to support workers and learners.



Explore what technical skills are needed for Heavy Duty Equipment Technicians at www.itabc.ca



BC Mining Careers Available Now and in the Future

Energy Conservation Technician

The industry is changing!

Curious about ways to ways to reduce carbon emissions, Energy Conservation Technicians discover opportunities to utilize new energy sources and decrease energy use

Careers seekers who want to use technology to positively impact change are ideal for this role

This role is new and growing in demand

Incorporation of clean energy at sites

Upgrading of equipment to be more energy efficient

Energy Conservation Technicians help mining companies find and implement new and innovative ways to conserve energy.

Explore what technical skills are needed for Energy Conservation Technician at www.eco.ca



BC Mining Careers Available Now and in the Future

Environmental Monitor

Analyzing the environment to progress sustainable projects, Environmental Monitors use their interest in the environment and enjoyment of being outdoors with the ability to collect, interpret, and apply data.

TEAMWORK:

Teams with diverse skills sets can work collaboratively to meet environmental commitments

IMPACTFUL:

Valuing knowledge of the land and connecting with and sharing information with partners provides legacy of information for communities

TECHNICAL:

Responsibly designing environmental programs, collecting data, data entry, and interpretation of data supports meaningful contribution to the environment to protect wildlife and habitat

AMBASSADOR:

Meaningfully engaging with knowledge experts and community to connect and share information is integral



Explore what technical skills are needed for Environmental Monitor at www.eco.ca



BC Mining Careers Available Now and in the Future

Community Cultural Director



Fostering respectful and inclusive workplaces, Community Cultural Directors support projects through implementing internal equity, diversity, and inclusion (EDI) initiatives.

This new and emerging role is key in building inclusive and safe workplaces.

The goal for individuals in this role is to create and sustain a safe and respectful work environment that values and reflects diversity and inclusion.

Skills needed for this job are:

- Excellent interpersonal skills
- Strong and diverse communication skills
- Decision-making skills
- Complex problem solving
- Cultural awareness and cultural agility

There is a need to innovate how industry approaches engagement and partnership development with employees, governments, competitors, communities and others

BC Mining Careers Available Now and in the Future

Engineer

Strategizing for efficiency and progress, Engineers enjoy solving complex problems to tough questions.

Engineers require technical knowledge and the ability to enhance collaboration with inclusive and diverse teams.

Engineers today are tasked with implementing new technology in all areas of mining.

There are different types of engineers

- Mining and Geological Engineers
- Computer and Software Engineers
- Electrical and Energy Engineers
- Environmental Engineers
- Civil and Process Engineers



Strong communication, interpersonal skills, and cultural agility are all assets for leading efficient and cohesive projects

The roles of engineers are continually evolving due to changes in technology, innovation, and workplace expectations

Explore more about what skills are needed for engineers at www.miningneedsyou.ca



BC Mining Careers Available Now and in the Future

Data Analyst

Using complex data to bring clarity to tough decision making and creative solutions, Data Analysts have the opportunity to support all aspects of mining.

As mining shifts to innovative technology and data collection methods, there is a need to analyze and understand data.

It is an emerging field that has a strong reliance on transferable skills, is often self-taught, and has a certificate credential.

Skills for Data Analysts could include:

- Mapping and GIS
- Coding
- Data management visualization
- Microsoft Excel
- Critical thinking
- Structured query language (SQL)
- R or Python-Statistical Programming
- Communication and presentation skills
- Machine learning



Explore more about what skills are needed for a data analyst at www.discoverdatascience.org



BC Mining Careers Available Now and in the Future

Water Quality Monitor/Technologist/Engineer

Curious about clues used to identify potential impacts on water and understanding water's interaction with the land, people in these roles will have a love for the outdoors and curiosity about science and the environment.

Understanding and respecting the land is critical to success

Working with local communities to share information and collaborate is key to protecting the environment

This job often starts with on-the-job training and leads to additional responsibilities and training such as a certification, or environmental engineering degree.

Skills for this job include:

- Attention to detail
- Ability to work outdoors or in a lab
- Problem-solving
- Strong communication
- Manual dexterity
- Safety conscious
- Teamwork



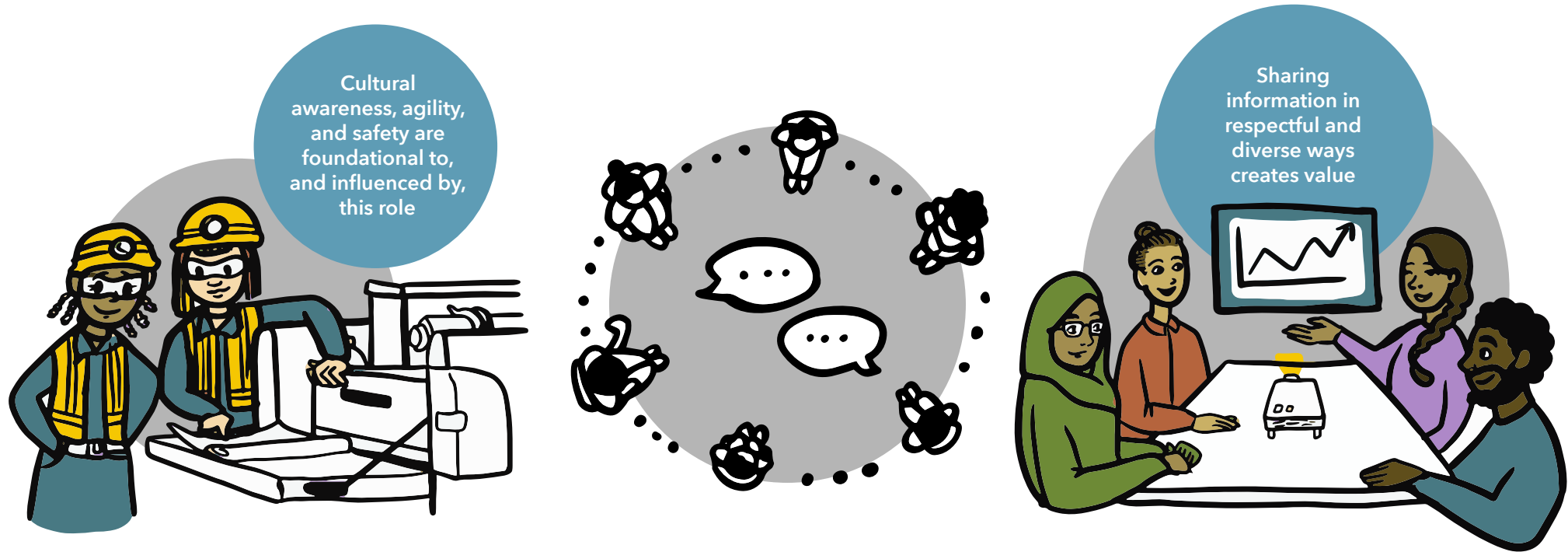
Explore more about what skills are need for water monitor at www.eco.ca



BC Mining Careers Available Now and in the Future

Community Liaison Officer

As strong communicators, Community Liaison Officers encourage open dialogue and support knowledge preservation influencing the legacy of projects for current and future generations.



Establishing & Maintaining

innovative ways for projects, local community(ies), and Elders to to partner with and integrate traditional, current and future Indigenous knowledge

Bridge Building

to support sharing of information and communication on local knowledge, community concerns, project updates, and the impacts of the development on the land in a collaborative way

Developing & Supporting

trusting, respectful relationships valuing local knowledge as integral knowledge and protecting the knowledge shared so it will be used responsibly

Explore what technical skills are needed for Community Liaison Monitor at www.eco.ca



BC Mining Careers Available Now and in the Future

Geologist

Curious about how the world works, Geologists are detectives; they uncover clues to determine what's underground.

Geologists collaborate with their colleagues and communities to discover the best development opportunities

There are many different types of geology related jobs with long-term career opportunities and growth.



Skills for geologists could include:

- Knowledge of a range of sciences and their applications
- Ability to work within a multidisciplinary team of scientists, environmentalists, engineers, etc.
- Good organizational skills
- Computer literacy and the ability to analyze numerical and graphical data
- Good written and verbal communication skills
- Comfortable with travel, field work, office work
- Creative and imaginative
- Interest in emerging technologies

Explore more about what skills are needed for a geologist at www.miningneedsyou.ca



BC Mining Careers Available Now and in the Future

Land Management and Compliance



Analyzing the environment to protect wildlife and habitat, this role supports sustainable projects.

There are different career opportunities including lands administration, regulatory compliance officer, mines inspectors, auditors, permitting manager, etc.

The job combines understanding legislation, collaborating with partners, and working closely with regulators and community experts.

A background in mining, geography, legal, environmental, geology, or earthsciences are assets for this type of role.

Ongoing changes to regulations and legislation requires workers in this role to enjoy staying current and continuously upskilling

A collaborative attitude to assist in developing partnerships and teamwork are key aspects of this job

Explore more about what skills are needed for these careers at www.miningnorthworks.com

