

# IMAGINE



# AS A MINING ENGINEER

## Careers

- Mining Engineer
- Manager of Mine Technical Services
- Manager of Operations
- Superintendent of Mining
- Safety Engineer
- Environmental Scientist
- Project Engineer
- Mine Design
- Mine Production
- Mine Reclamation
- Mine Product Marketing



**Starting Salary:** \$65,000

**Average Salary:** \$84,320

## Who Hires our Graduates?

- [Rio Tinto](#)
- [Freeport McMoRan](#)
- [Kinross Gold](#)
- [Newmont Mining](#)
- [Barrick Gold](#)
- [CONSOL Energy](#)
- [BHP Billiton New Mexico Coal](#)
- [Peabody Energy](#)
- [Arch Coal](#)
- [Bowie Resources](#)
- [Foresight Coal](#)
- [Walter Energy](#)
- [CS Mining](#)
- [Graymont Lime](#)
- [Monsanto Chemicals](#)
- [Simplot Phosphate](#)
- [Questar](#)
- [US Gypsum](#)
- [Morton Salt](#)
- [DMC Mining Services](#)
- [Cementation](#)
- [Traylor Mining](#)
- Government Agencies ([MSHA](#), [NIOSH](#), [OSM](#), [DOGM](#), [BLM](#))

## Professional Organizations

[SME](#) (Society for Mining, Metallurgy, and Exploration), [ARMA](#) (American Rock Mechanics Association), [WIM](#) ([Women in Mining](#)), [ISEE](#) ([International Society of Explosives Engineers](#))

Mining provides the raw materials and energy resources needed to sustain modern civilization. Mining Engineers are trained to determine the safest most sustainable way to remove these materials from the Earth. They must be innovative and well trained to meet the ever-increasing world demand for energy and mineral resources. The average American consumes approximately 45,000 pounds of minerals, metals, and fuels each year, making mining an indispensable part of our daily life and world economy.

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## What Our Graduates Say

*Jon Warner, Superintendent of Mine Planning*



"When I chose to begin a degree in Mining Engineering I wasn't sure that it was the right field for me. I was looking for a career in engineering but hadn't decided which discipline to pursue. After taking a few courses I decided to stay as I realized that mining requires the practical application of all engineering disciplines. However, **Mining Engineering requires** much more than the ability to draw in AutoCAD and apply some equations, it takes **ingenuity, creativity,** and the **ability to solve problems** that don't yet have answers. The courses I took through the curriculum gave me exposure to the engineering tools I needed, but it was the help of the department to network and interact with professionals in industry that helped me to find a stable career. I'm working at Rio Tinto's Kennecott Copper mine in Salt Lake as the Superintendent of Mine Planning. I apply what I learned in school as I lead a team of engineers to safely design, schedule, and communicate plans that deliver the copper the company and our community depends on."

*Krystal Walker, Mining Engineer*

"I chose Mining Engineering for the opportunity to design and implement reclamation plans for current and abandoned mines. With my mining engineering degree, I can combine my training in Biology to determine the best reclamation plan for a mine still in the planning stages, or a closure strategy for a mine that was abandoned decades before reclamation was required. As a Mining Engineer at URS Corporation, I have been able to put all of my schooling to work doing abandoned mine reclamation and inventory, new mine permitting, and mine expansion permitting. During my tenure at URS, **I have worked on projects from the investigation and design phase, through construction and to final completion.** I enjoyed my time as a student in the Mining Engineering department because the classes are small and each faculty member is genuinely interested in the success of every student. The mining engineering field is very close knit, and my former classmates are now colleagues."



*Alan Hepworth, Short-Range Mine Planner*



"I like huge trucks and dirt, so I chose to make a career in mining because equipment isn't bigger anywhere else. I have stayed in mining engineering because there is a lot of work to do outside of the trucks and dirt that I have to find to be technically challenging and just as rewarding. Currently, I work for Monsanto Company as a short-range mine planner. I love short-range mine planning because I get the time to leave the office and go out to the pit and work with the operation supervisors to figure out the most optimal way to mine that day, but I also get the technical engineering time at the computer to design the pit and crunch the numbers to see how best to make money. Mining has become a part of me - I feel **connected** to a large network of miners that started with the **incredible teachers and staff at the University of Utah Mining Engineering Department** and continues with the professionals that I work with everyday. If you want a challenge and a community to be part of, choose mining."