

CAREER PROFILE

ENGINEERING MANAGER

Name: Jared Keller

Employer: Westmoreland Coal Company

Education: BSc. Civil Engineering



DETAILS OF THE JOB: The Engineering Manager of a mine site has many duties, including medium and long term mine planning/design; forecasting and budgeting; management and mentoring, as well as data management and analysis. Most of the work is done with computers and software, such as AutoCAD, Excel, specialty mining software, etc. New technology, such as the use of aerial survey drones, is an ever growing part of the job. These aerial survey drones conduct flights under engineers guidance to gather topographic data. This information is used to model the ground surface digitally in 3D, which proves invaluable to engineering designs.

A TYPICAL DAY: On a typical day Jared spends his time supervising and mentoring young engineers to help them grow their skills. He works with daily production data to ensure it is accurate, and then works with that data to determine productivities, efficiencies and inventory levels. Mine planning from a few months ahead to 50 years down the road is continuous. It includes pit design/layout, infrastructure design, and haul road design. The majority of the job is done in the office, but regular visits are made to the mine site to stay up to date on what is happening.

SKILLS NEEDED:

- Time management
- Critical thinking and problem solving
- Common sense
- Strong computer skills
- Strong communication skills are important to allow for positive interactions with the customer, operations personnel, and government regulatory bodies

COMMENT: "I fell into the job without knowing a whole lot about it and ended up loving it. The people, independence, job variety, advancement opportunities, environment, etc. have made the job very rewarding and enjoyable. By far the people have been the best part of the job, all wanting to share their knowledge and experiences" says Jared.

WHERE CAN I GO TO GET AN EDUCATION? U. of Regina, U. of Saskatchewan

HELPFUL HIGH SCHOOL COURSES: Physical Science 20, Chemistry 30, Physics 30, Mathematics 30, Calculus 30, English Language Arts 30

NOC: 0211

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