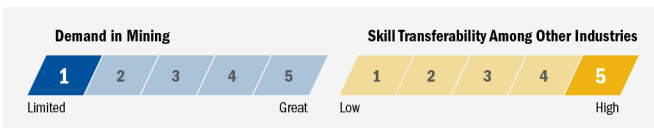# MAPPING TECHNICIAN / TECHNOLOGIST

Mapping Technicians bring together information in exciting ways, creating and using GIS databases and computer programs to replace paper maps and drawings. They are good with numbers, programming and visualizing data.

Job Description

- Procure and install GIS software for the mine data collection, as well as the equipment that interfaces with Satellite Positional Systems (SPS)
- Build, design output reports, operate and maintain the GIS and spatial databases and systems for the mine
- Analyze and edit spatial data to verify its integrity and accuracy
- Work closely with Surveyors and Engineers to ensure data is accurately collected, presented and interpreted
- Integrate data from various sources to generate digital graphics and maps
- Prepare topographic maps, aerial photo mosaics, and other custom mapping products
- Help to ensure safety , improve operational efficiency and quality control, control costs and solve problems
- Contribute to reports and instruction manuals, attend meetings, record and store information
- Coach and assist Surveyors, Engineers and Operators use of GIS databases

Job Prospects

Demand in Mining					Skill Transferability Among Other Industries				
1	2	3	4	5	1	2	3	4	**5**
Limited				Great	Low				High

Why are People Attracted to this Career?

Mapping Technicians enjoy problem solving, information technology and the presentation of data. They enjoy working in multidisciplinary teams, using the latest technologies and equipment.

What is it Like to Work as a Mapping Technician in Mining?

Note: *conditions vary according to employer and region.*

Mapping Technicians are based in an office far from the mine site, but may spend time at the production and exploration sites. Standard weekday working hours with only occasional overtime, evening and/or weekend work are the norm.

Success Profile

- ☑ Interested in problem solving, Information Technology, instrumentation and new techniques and applications
- ☑ Interested in visual presentation, aesthetics, colour schemes
- ☑ Can work in a fast-paced, changing environment, in a team and independently
- ☑ Committed to accuracy, data integrity, improved production and reduced costs
- ☑ Interested in quality assurance, safety and environmental protection, procedures, legislation and regulations
- ☑ Learns quickly, especially detailed functional, legal/privacy and technical information
- ☑ Strong organizational, analytical, computer and programming skills, communication, listening and multi-tasking skills
- ☑ Takes initiative and achieves new insights into the data
- ☑ Works well with the continuing changes of pragmatic iterative processes

Job Entry Requirements

Note: *The requirements listed below illustrate what it takes to start the career and do not take into account on-the-job training given to new employees.*

Fixed Requirements

- Post-secondary degree or diploma in a relevant subject (i.e. geography, geology, surveying, etc.), or a combination of education with experience as a Database Technician
- Proficiency with surveying terminology and the use of survey tools and field equipment
- Proficiency with AutoCAD, digital mapping, spatial database software, graphic workstations, colour plotters, digitizers and related equipment
- Able to prepare and execute less complex tools such as scripts, menus and routines related to the work performed
- Knowledge of GIS software
- Proficiency with word processing, spreadsheet, email software and language of operation
- Knowledge of advanced geographic information concepts, systems and applications, legal land surveying, coordinate geometry, survey calculations and topographical mapping
- Must be able to pass a medical and drug test
- Willingness to work in a diverse environment

Regional Requirement

- Certification through provincial associations of applied science technologists and technicians
- Two years of supervised work experience

May be Required

- Valid driver's licence with few or no current infractions

Assets

- Willingness to relocate
- Other languages