

**Job Title:** Mine Automation and Technology Engineer  
**Department:** Mine  
**Reports To:** Chief Engineer  
**FLSA Status:** Exempt  
**Creation Date:** 1/8/2018  
**Revision Date:** 4/5/2018



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## **POSITION SUMMARY**

This position will report to the Chief Mine Engineer and work closely with Mine Operations, Electrical, and Maintenance departments. The automation engineer will assist with the implementation of automated mining equipment, underground wireless networks, and other underground automated systems. As a member of the technical services department this position requires someone with a passion for automation and an interest in implementing new technologies. The successful candidate must have a systematic approach to troubleshooting and design and should be capable of independently solving problems while working with personnel across several departments.

## **SAFETY, HEALTH & ENVIRONMENTAL RESPONSIBILITIES AND ACCOUNTABILITIES**

All Hecla personnel shall strive to achieve best practice in safety and health, and assist in the control of incidents, injuries and loss. Duties include, but are not limited to:

- Complying with all necessary requirements put in place to prevent incidents, injuries or losses
- Ensuring the safety and health of themselves and others in the workplace by being responsible for their actions and taking due care while performing their work
- Identifying, eliminating, and reporting hazards as soon as practicable
- Reporting incidents and accidents as soon as practicable
- Disclosing all information regarding incidents and cooperating in incident investigations
- Assisting in the resolution of health and safety matters in a positive and timely manner
- Using and maintaining PPE
- Providing suggestions for improving work processes
- Assisting Management by supporting change to achieve desired targets
- Ensuring that plant and equipment operate within their safe working limits
- Ensuring that correct equipment is used for the job
- Participating in risk assessment methodology
- Participating in safety initiatives
- Receiving training and instruction as required
- Maintaining good housekeeping standards

## **ESSENTIAL FUNCTIONS**

- Assist mine operations with implementation and use of automated mining systems.
- Optimize automated mining systems including; stope layouts, underground wireless networks, machine settings, and procedures.
- Troubleshoot automated equipment and wireless communication systems.
- Continually incorporate lessons learned into new procedures and future designs.
- Train operators and technicians in successful operation and troubleshooting of automated systems
- Work with mining engineers to create mine designs which maximize the value generated by operating automated equipment.
- Understand underground network communications including: troubleshooting, monitoring, and planning the underground wireless network.
- Other duties may be assigned

## **QUALIFICATIONS**

### **Education Requirements**

The successful candidate will have attained an undergraduate degree in mechatronics, electromechanical engineering, electrical engineering, mechanical engineering, or have equivalent experience.

## Experience

A minimum of 3 - 5 years of relevant experience is preferred.

## Special Skills

Exposure to wireless communication systems, CAN BUS systems, and automated systems. Proficiency in in one relevant programming language (HTML, JAVA, Python, etc.) is preferred but not required.

## PHYSICAL DEMANDS

While performing the duties of this job, employees may be frequently required to stand, walk, or sit for extended periods of time; use hand and fingers to handle or feel; reach with hands and arms; climb and balance; stoop, kneel, crouch, and crawl. The employee must be able to talk and hear.

JOB TASK	TEST ACTIVITY	COMMENTS
Walking - Incline	Treadmill Level – 3 min. 10% grade 1 min. 12% grade- 1 min. 15% grade – 1 min.	Work areas
Balance uneven surfaces	Airex-SLS or balance board 30 sec.	Uneven surfaces
Carry 25lbs. 50 ft.	Weighted crate trial - lift and carry 1: 15lbs. – 1 rep. 2: 25lbs. – 1 rep.	Field equipment / office supplies
Carry 50 lbs. 20 ft.	Weighted crate trial - lift and carry 1: 35lbs. – 1 rep. 2: 50lbs. – 1 rep.	Field equipment / office supplies
Lift 25lbs. Floor to waist	Weighted crate trial 1: 15lbs. – 3 reps. 2: 25lbs. – 3 reps.	Field equipment / office supplies
Lift 50lb. Floor to waist	Weighted crate trial 1: 35lbs. – 1 rep. 2: 50lbs. – 1 rep.	Field equipment / office supplies
Reach Knee to shoulder		General duties

## Other Physical Demands

### Vision - Constant:

- Able to judge distances and spatial relationships to avoid accidents while driving and walking underground
- Have clarity of vision while operating machinery, reading gauges, and placing tools
- Have clarity of vision for distances while navigating within the mine and access roads efficiently and safely
- Able to adjust varying points of reference while safely navigating the terrain, maintaining awareness of traffic, and operating tools and machinery
- Able to identify vehicles, machinery, and people in peripheral vision

### Speaking - Occasional:

- Able to clearly communicate with co-workers and supervisors on the radio and in person

### Hearing - Occasional:

- Must wear hearing protection while working in the mine

## WORK ENVIRONMENT & JOB SCHEDULE

Employees may be frequently exposed to underground work environments; outside weather conditions, wet and/or humid conditions; extreme cold, extreme heat, potentially hazardous wildlife; moving mechanical parts; high precarious places; fumes or airborne particles, toxic or caustic chemicals; risk of electrical shock; explosives and vibration. The noise level in most work environments is usually very loud. This position may occasionally require work on nights or weekends.

## ABOUT US

### Greens Creek

The Greens Creek Mine, located on Admiralty Island, 18 miles south of Juneau, is an underground polymetallic mine employing approximately 425 people. The mine is owned and operated by Hecla Mining Company,

headquartered in Coeur d'Alene, Idaho. Established in 1891, Hecla has a rich history as a distinguished and respected precious metals producer. Winner of numerous safety and environmental awards, Greens Creek is seeking new team members committed to professional growth and success.

### **Community**

Juneau, Alaska's capital, is the third largest city in the state. Like Alaska, Juneau is full of contrasts, a sophisticated cosmopolitan city in the heart of the Tongass National Forest. Nestled at the base of mountains overlooking the Gastineau Channel, Juneau is surrounded by intercoastal waterways, lush rain forests, rugged mountainsides, and awe-inspiring glaciers. This small city has it all, the adventure of the "last frontier" as well as a good education system, year-round cultural and sports activities, a wide variety of entertainment, world class fishing and wildlife viewing, temperate weather, and a strong sense of community. Juneau is rich in mining history and Greens Creek is proud to contribute to that heritage by operating in a safe and environmentally responsible manner.

### **Compensation & Benefits**

Hecla Greens Creek offers competitive pay based on experience and an excellent low-cost benefits package for medical, prescription, dental, and vision insurance as well as other coverages such as disability coverage and life insurance. Retirement benefits include a pension plan and 401(k) with company match.

### **APPLICATIONS & RESUMES**

Applicants must possess current authorization to work in the United States. Resumes are welcome but **must be attached to an application form**. Applications are available at the Juneau Job Center or <http://www.hecla-mining.com/careers/>. Completed applications should be forwarded to:

**Juneau Job Center  
10002 Glacier Hwy #200  
Juneau, Alaska 99801  
Phone: 907.465.4562  
Fax: 907.465.2984**

**Hecla Greens Creek is an Equal Opportunity Employer.  
Please visit Hecla's website at [www.hecla-mining.com](http://www.hecla-mining.com)  
and our recruiting page at  
<http://www.hecla-mining.com/careers/>**

### **ACKNOWLEDGMENT**

I have received my job description and understand I will be evaluated on the requirements of the Mine Automation and Technology Engineer position.

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Signature and Date

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Printed Name