



# Entry-Level Hydrogeologist / Groundwater Modeller

## Department Description

DHI is an independent, not-for-profit international consulting and research organization. We advance technological development, governance and competence in the fields of water, environment and health. We offer a wide range of consulting services as well as leading edge technologies. DHI works with governmental agencies and authorities, utilities, consulting companies and a wide range of industries.

DHI is well-established in the United States with our US headquarters in Lakewood, CO and offices in San Diego and Pittsburgh. Senior personnel with a broad experience of water related issues staff these offices. Our US staff are backed by DHI's international network of over 1100 staff, the majority of whom are professional engineers and scientists with post-graduate qualifications - 35% have a PhD. DHI's international network will be drawn upon to execute the proposed project in an expedited manner consistent with the project schedule.

DHI's knowledge of water environments represents 50 years of dedicated research, and real-life experience from more than 140 countries. We are the commercial pacesetter for development and application of comprehensive state-of-the-art Decision Support Systems and modelling software in water environments. Each year DHI invests 20% of its human resources in R&D, in the ongoing development of the MIKE suite of software ([www.mikebydhi.com](http://www.mikebydhi.com)). This in turn enables DHI to provide clients around the world with the latest know-how and the most advanced technologies. DHI interacts closely with users (currently +5,000 organizations) to provide feedback and gain inspiration for future R&D.

When it comes to ingenuity, we have no boundaries. With diverse projects across the globe, you can dare to do things differently, challenge the status quo and discover your true potential.

## The Opportunity and Job Description

An exciting opportunity has arisen for a motivated entry level hydrogeologist / groundwater modeler to join our growing hydrology and hydrogeology group based in Denver, Colorado.

We are seeking an energetic and enthusiastic person to contribute to hydrogeologic investigations for a variety of mining and water resources studies including:

- Open pit and underground mine dewatering and depressurization.
- Groundwater exploration and development including wellfield optimization modeling.
- Modeling of groundwater – surface water interactions and integrated watershed models.
- Evaluating the potential hydrologic impacts of proposed, operating or reclaimed mines.
- Variably saturated flow modeling of heap leach and waste rock storage facilities.
- Probabilistic mine water balances.

## Skills, qualifications and experience

Your attributes and accomplishments will include:

- A Masters or Doctorate degree in hydrogeology, engineering or related field.
- Experience in implementing hydrogeologic characterization and groundwater modeling studies.
- Knowledge of different drilling methods, geophysical techniques and experience implementing hydrogeologic characterization studies including well design and construction, packer testing, aquifer testing and analysis and water quality sampling techniques.

- Experience developing hydrogeological conceptual models and geologic framework models (Leapfrog, Geomodeller etc.).
- Demonstrated expertise in codes such as MODFLOW and/or FEFLOW, including inverse modeling using PEST.
- Experience with surface water modeling a plus.
- Experience with three-dimensional visualization software and ArcGIS.
- Strong academic knowledge in physical hydrology and hydrogeology.
- Strong skills in verbal communication, technical writing, and technical illustration.
- Demonstrated ability to lead hydrogeologic characterization and modeling investigations and work with a team of multidisciplinary professionals.
- Skilled in managing multiple hydrogeological projects and budgets.
- Willingness / ability to travel up to 25 % of the time to DHI offices and job sites in the North and South America.
- Spanish language capabilities a plus.
- Goldsim and/or water balance modeling experience a plus.
- Proficient in a programming language (preferably Python).
- Motivation to grow and expand professionally and be willing to work independently or on a team.

## How to Apply:

To be part of an exciting professional organization with offices around the world, we invite you to submit a detailed resume to Dana Herrera (dhe@dhigroup.com).

We will contact only those applicants who most closely meet our requirements directly.

Thank you for your interest in this position.