



Ph.D. Graduate Research Assistant Opportunity – Sustainable Mining and Critical Minerals

Department of Mining and Metallurgical Engineering

University of Nevada, Reno

We are seeking a highly motivated **Ph.D. student** to join our Sustainable Mining Research Group at the University of Nevada, Reno. The successful candidate will conduct cutting-edge research in critical minerals, sustainable extraction and recycling technologies, life cycle assessment (LCA), techno-economic analysis (TEA), separation science, and the circular economy. The position provides an excellent opportunity to work on federally funded research projects in collaboration with leading universities, national laboratories, and industry partners.

Research Areas

The Ph.D. student will contribute to one or more of the following research areas:

- Sustainable extraction and recovery of critical minerals
- Separation science and hydrometallurgical process development
- Recycling and circular economy approaches for critical materials
- Life cycle assessment (LCA) and techno-economic analysis (TEA) of mining and processing technologies
- Process optimization and sustainability assessment for mineral processing systems

Qualifications

Applicants should have:

- B.S. & M.S. degrees in Metallurgical Engineering, Mining Engineering, Chemical Engineering, Materials Science or a closely related discipline.
- A strong interest in sustainable mining, critical minerals, and mineral processing research.
- Experience in one or more of the following areas is desirable:
 - Hydrometallurgy or mineral processing
 - Separation science
 - Critical minerals and battery materials
 - Life cycle assessment (LCA)
 - Techno-economic analysis (TEA)
 - Process modeling or data analysis
- Strong written and verbal communication skills.

- Demonstrated ability to work both independently and collaboratively in a multidisciplinary research environment.

Interested applicants are encouraged to email their CV to **Dr. Ehsan Vahidi** at evahidi@unr.edu with the subject line "**Ph.D. Student Application – Sustainable Mining**".

Applications will be reviewed on a rolling basis until the position is filled.

