

POST-DOCTORAL FELLOW

We are currently seeking to hire a postdoc in geotechnical engineering, materials engineering, and characterization with expertise in soil and/or cementitious materials testing at the Colorado School of Mines. This position is initially one year with the possibility of extension to two years. The new hire is expected to start by May 13, 2024, or shortly after. The applicant's job duties include the following: Conducting laboratory and field studies aimed at production of construction materials from mine tailings. Our research team has conducted chemical, physical, mineralogical, and geotechnical characterization of tailings and the applicant will explore new technological solutions targeted to produce lightweight aggregates, geopolymer concrete and cementitious materials from mine tailings. The applicant will assist with the preparation of project reports, scholarly manuscripts, and research proposals.

The successful candidate will meet the following required criteria:

- A PhD in a related field (civil engineering, mining engineering, geological engineering, materials engineering, chemical engineering, physics, chemistry, or other related fields).
- Strong publication record in high-quality peer-reviewed journals
- Strong commitment to collaboration, diversity, equity, and inclusion
- Excellent communication skills, both oral and written

Preferred (Special) Qualifications

- Ability to communicate fluently in Spanish for collaboration with partner research teams in Peru
- Ability to travel to Peru
- Prior research work resulting in publications on the reuse of mine tailings
- Prior experience with one or more of the following: soil testing, cementitious materials testing, quantitative sustainability assessment, and materials characterization using equipment such as SEM, XRD, XRF, SEM-EDS, ICP-AES, FTIR, and Micro-CT.

If interested in this opportunity, please send your CV, a cover letter or email explaining your research experience and qualifications for this research opportunity, and up to three recent publications to Dr. Reza Hedayat (hedayat@mines.edu). The review of applications will begin immediately, and for full consideration, the candidate should apply by May 6, 2024 through [Mines Career Website](#). We will continue reviewing applications until the fellowship position is filled. Please feel free to contact Dr. Reza Hedayat for more information.

Contact Information:

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