



LIZ ROEPKE

GEOLOGIST

BS in Geology, minor in Math - Univ. of Puget Sound (Cum Laude, '11)
MS in Earth Sciences, Biogeology track - Univ. of Minnesota '18

SPECIALIZATIONS



FIELD MAPPING



SAMPLING PROGRAMS



DATA ANALYSIS



EVALUATIONS & REPORTING



DRILLING PROGRAMS

FIELD EXPERTISE

- Geomicrobiology
- Granite-Greenstone terranes
- Precambrian geology
- Orogenic gold
- Biogeochemistry
- Paleoenvironments
- Environmental geochemistry

HOW I BECAME A *GEO*:

"My family goes camping a lot so I was outdoors a lot as a kid. In the summer during high school, I went on canoe trips with YMCA Camp Widjiwagan (based in Ely, MN) culminating with a 6-week whitewater canoeing trip through the Northwest Territories and Nunavut. When I started college that fall, I took my first Geology class and I think I liked it so much because it helped explain why the different landscapes I had seen look the way they do. . . How rivers and glaciers change a landscape, how it's influenced by the bedrock underneath. . .

*AFTER THAT **ONE CLASS**, I WAS **HOOKED** AND **HAVEN'T LOOKED BACK SINCE.***

A college class in "Mineral Resources and the Environment" sparked my interest in economic geology, and I've always loved working in MN because it has everything from Archaean to Quaternary geology."

MY FAVORITE PROJECT SO FAR:



My research in grad school focused on removing metals from effluent at the Soudan Underground Iron Mine site using native fungi and bacteria. I enjoy thinking about the interactions between biology and geology, especially at small scales.

MY DREAM PROJECT:



My grandfather worked for the Bureau of Mines trying to figure out how to drill on the Moon. It would be really cool to follow up on that and work on a project that studied mining in space. Another (more plausible) dream project would be biomining, using microbes to sequester metals from low-grade ore and waste rock.

WHY BIG ROCK?

*I'm excited to learn and grow with Big Rock on a hard-working team that values **creativity, collaboration, and care for each other** and the environments in which we work.*



GET IN TOUCH:

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Elizabeth Roepke