



# 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