

# Patrick James Wood

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## Profile

Safety-oriented geologist with petrology, structure and geophysics integrated background. I am a determined individual focused on the technical success of my team to meet the bottom-line financial objectives of the company.

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## Professional Skills

- **Communication:** Oral presentation skills, technical writing – reports, government forms (e.g. mineral claims and drill permits).
  - **Computer:** Microsoft Office, Seequent – Leapfrog, ArcGIS, QGIS, ioGAS.
  - **Analytical:** Petrography, SEM, electron probe micro-analysis.
  - **Field:** Geological mapping (Anaconda method; bench mapping); drill core logging; QA/QC; claim staking; soil sampling.
  - **Certifications:** MSHA surface and underground (2024).
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## Experience

### **Tamarack Geological Services, Nevada, USA**

*August - December 2024*

*Position:* Contract Geologist

- Brownfields exploration and production core logging for Kinross Gold Corporations Nevada operations.

### **Golden Vertex Corporation, Bullhead City, AZ**

*Oct 2023 - August 2024*

*Position:* Senior Geologist

- Ore control; pit-wall mapping; RC chip logging; outcrop mapping; resource modeling; brownfields exploration targeting.

### **Helvetia Minerals, LLC, Tucson, AZ**

*Nov 2020 – Present*

*Position:* Self-employed

- Mineral exploration services for junior mining companies based in the southwestern USA.

### **Big Rock Exploration, LLC, Denver, CO and Tucson, AZ**

*April – Dec 2022*

*Position:* Contractor

- Provided expertise consulting for an aggregate company evaluating a property for quarry development – prevented the client from making an investment that would have ultimately failed to produce material to standards.
- Production core logging for Lone Star and Bagdad FY22 resource model updates: logging required identifying lithologies, alteration, estimating ore mineral vol % (TCu est %) for Freeport McMoran Inc. North American brownfields exploration group.
- Trained geologists in core logging SOPs for both client and company (BRE) for porphyry Cu-Mo exploration drillholes. Presented a case for updating the geologic model for a world class copper deposit in Arizona.

### **South32, Harshaw, Arizona, USA**

*Oct 2019 – Sep 2020*

*Position:* Geologist

- Resource definition for Clarke and Taylor deposits (geotechnical and geologic core logging for Hermosa Project pre-feasibility study); soil sampling; development of petrophysical database; GIS-based AOI prospect generation for Pb-Zn-Ag skarn/CRD at the district to province scales in North America.

### **Western Alaska Copper and Gold, Illinois Creek District, AK**

*June – July 2018; June – July 2019*

### **Trilogy Metals Inc. (NovaCopper Inc.), Ambler District, AK**

*August – September 2019*

*Position:* Geologist Contractor

- Drill core logging, QA/QC, and mapping of a prospective porphyry Cu-Mo-Ag skarn deposit at Illinois Creek. Generated digital core log database for historic drill data. Identified and assigned codes for lithologies, alteration, vein types and vein densities to

develop a geologic model of the Round Top porphyry prospect. Lithologic and geotechnical logging for Arctic deposit and Sunshine Creek prospect in the Ambler Mining District Aug. 9 – Sep. 1. Drill core logging to define the extent of a known resource for an advanced stage exploration project in a world-class VMS mineral belt.

**United States Geological Survey, Lakewood, CO**

*November 2016 – December 2019*

**Department of Minerals and Geochemistry**

**Crustal Geophysics and Geochemistry Science Center**

*Position:* Student Research Volunteer

- Integrated rock physical properties, silicate-oxide mineralogy, and whole rock geochemical data to create a new geologic model of the Cripple Creek Au-Ag-Te deposit using legacy USGS geophysical data.

**Edgar Experimental Mine, Idaho Springs, CO**

*May – August 2017*

**Department of Mining Engineering, CSM**

*Position:* Student Employee

- Underground mine surveying, geological mapping, drilling, blasting, and mucking using both rail-mounted and rubber-tired mining equipment.

**Geotemps Inc., Tucson, AZ**

*September – October 2014*

*Position:* Geotechnician

- Contract geotechnician at Hudbay's Rosemont project: an advanced development stage Cu skarn deposit.
- RQD data collection for the development of the projects open-pit slope stability model.

**University of Arizona LaserChron Center, Tucson, AZ**

*Mar 2013 – June 2015*

*Position:* Lab Assistant

- Operated Hitachi 3400N SEM w/ Gatan Chroma CL & Oxford Energy EDS/EBSD for acquisition of base image maps and mineral identification. Performed zircon core ablations in LA-ICP-MS lab for U-Pb geochronology and prepared samples for analysis in rock crushing room and sample mounting lab.

**Cadillac Mining Corporation, St. George, UT**

*May – July 2012*

*Position:* Geotechnician

- Cut/sampled drill core and assisted construction of core facility at Goldstrike drilling project for a disseminated sedimentary hosted Au-Ag deposit. Researched historical mining data in the Goldstrike District.

**Unity Human Resources, Bellingham, WA**

*June – December 2011*

*Position:* Contractor

- Geotechnician and field assistant for Vancouver, BC based mineral exploration companies.
- Claim staking, core cutting, QA/QC.
- Archiving property claims, drill permits, historical data.
- Fuel and water transport for drilling operations.
- Work localities included Freiburg, Reveille, Mammoth-Ellsworth, Lodi Hills/Quartz Mountain, Mahogany Hills, Schell Creek, and Troy Mining Districts.

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## **Education**

**Colorado School of Mines, MS Geology**

*May 2023*

THESIS TITLE: *Petrophysical Properties and Geochemical Characteristics of Crystalline Rocks: Implications for Interpreting Geophysical Anomaly Sources in the Cripple Creek Mining District, Colorado, USA.*

**University of Arizona, BS Geosciences (Geology Emphasis)**

*August 2015*