

RAJDEEP MONDAL

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Research Interests:

Geochemistry, Tectonics.

Education:

2025 – Present	Graduate Student, Department of Geosciences, University of Arizona, USA
2017 – 19	M.Sc. (Applied Geology), Jadavpur University, Kolkata, India.
2014 – 17	B.Sc. (Honors in Geology), Jadavpur University, Kolkata, India.

Professional Appointments:

2019 – 2021	GET and Assistant Manager, (Geology, Planning, Quality, Environment), Hindalco Industries Limited, Aditya Birla Group.
Summer, 2018	Indian Academy of Sciences (ISA) Summer Fellow at Wadia Institute of Himalayan Geology, Dehradun, India.

Awards:

Govt. of India DST-INSPIRE Scholarship for Higher Education; 2014 – 2019 (Awarded to 1% students pan India).

Dissertation:

Mode of occurrence, Texture and Geochemistry of Magnetite in Magnetite-Ilmenite and Magnetite-Apatite ore from Pathargora, Singhbhum Shear Zone, Eastern India, under supervision of Prof. Dipak C. Pal at Department of Geological Sciences, Jadavpur University.

Participation and Presentation:

- Poster Presented on “**Magnetic shape Fabric Analysis- A study based on eigen value method**” at 58th Annual General Body Meeting of the Geological Society of India, (2016) at IIT Kharagpur
- Poster Presented on “**Micro-Algae: An Alternative Source of Biodiesel**” at Prithvi, (2016) organized by Department of Geology and Geophysics, at IIT Kharagpur
- Poster Presented on “**Kinematic Vorticity: Implications in Shear Zone**” at Lithify, 2015, organized by Jadavpur University Geological Society (JUGS), at Jadavpur University

Extra-Curricular Coursework:

- Completed online coursework for 2 months on “**Fluid Inclusion in Mineral Principles, Methodology, Practice and Application**” conducted by Prof. M. K. Panigrahi (IIT Kharagpur), National Programme on Technology Enhanced Learning (NPTEL), 2018
- Completed coursework on “**Sensitive High Resolution Ion Microprobe (SHRIMP) applications of**

isotope geochemistry in Earth System Science” conducted by Prof. Ian S. Williams (Australian National University) and Prof. Sandeep Singh (IIT Roorkee), Global Initiative of Academic Networks (GIAN), 2017 at IIT Roorkee.

- Attended workshop on **“Mohr Circle Simplified” and “Modern Methods of Fabric Analysis in Deformed Rocks”** at 58th Annual General Body Meeting of the Geological Society of India, 2016 at IIT Kharagpur

Publication:

1. Adak, S., Pal, DC., **Mondal, R.** (2021). Abstract on *Geochemistry of magnetite in magnetite-apatite veins and magnetite-ilmenite pods in the Singhbhum Shear Zone, eastern India and it's implications in ore-forming processes* at AGU Fall Meeting at Orleans, LA, USA
2. Adak, S., Pal, DC., Upadhyay, D., **Mondal, R.** (2021). *Textural re-equilibration, hydrothermal alteration and element redistribution in Fe-Ti oxide pods, Singhbhum Shear Zone, eastern India*-Chemie der Erde-Geochemistry.

Academic Experience and Technical Skills:

Field Experience:	Singhbhum Sear Zone (SSZ, Singhbhum Craton, India) Archaean carton and sedimentary successions (Singhbhum Craton, India). Modern tidal and estuarine sedimentary environment (Chandipur, India).
Micro-analytical:	SEM, EPMA, XRF, LA-ICPMS.
Organization Skills:	Coal Mining, Environment and Sustainability, Quality Assurance/QualityControl, Safety and Risk Management, Compliances
Technical Skills:	Geological and Mining Mapping, Drilling, Core Logging
Software Acquainted:	AutoCAD, QGIS, Datamine