

# Resume

## Akhil Kumar Dwivedi

Assistant Professor (Geology)

Department of Geology,  
Faculty of Earth Sciences, Mohanlal Sukhadia University,  
Udaipur, Rajasthan 313 001

**Mobile:** +91 9451373496

**Office/Lab:** 0091 294 241 3955/ 0091 808 140 6660

**Email:** akhilkd@mlsu.ac.in; akhilkd@rajasthan.gov.in, akhilkumardwivedi@gmail.com



### Area of Interest:

- Mineral Exploration & Ore Genesis
- Environmental Geology
- Remote Sensing

### Academic Qualifications:

- PhD (Pursuing) from IIT ISM (Indian Institute of Technology Indian School of Mines) Dhanbad, Jharkhand
- MSc (Applied Geology) from University of Allahabad, Prayagraj, Uttar Pradesh, A Central University in 2012-14
- BSc (Maths, Physics & Geology) from University of Allahabad, Prayagraj, Uttar Pradesh, A Central University in 2009-12

### Professional Experience:

Present: **Assistant Professor** in Department of Geology at **Mohanlal Sukhadia University**, A Public University of Rajasthan Government since 04.06.2018 till date.

*Responsibilities held:*

#### Academic

- Undergraduate Courses: Mineral Resource (BSc 3<sup>rd</sup> Year), Geoexploration and Principles Of MINING (BSc 3<sup>rd</sup> Year)
- Graduate Courses: Economic Geology (MSc 3<sup>rd</sup> Semester), Mineral Exploration & Mining Geology (MSc 4<sup>th</sup> Sem), Mineral Exploration & Mining Geology (MSc Tech 1<sup>st</sup> Sem), Mineral Technology And Mineral Economics (MSc Tech 1<sup>st</sup> Sem), Petroleum, Coal and Radioactive Minerals (MSc Tech 2<sup>nd</sup> Sem)

#### Other

- Coordinator of working committee of IQAC.
- Member of admission committee at Science College for UG admissions.
- Convener of admission committee for PG admissions at department of Geology.

Formerly: **Senior Geologist at Mineral Exploration Corporation Limited** (A Miniratna PSE of Ministry of Mines, Government of India) from 09.02.2015 - 03.06.2018.

*Responsibilities held:*

- Preparation of exploration proposals funded through various schemes of Ministry of Mines, Govt. of India
- Project Geologist in Iron Ore Exploration Project at Bellary, Karnataka and preparation of Geological reports of the exploration programs.
- Officer In charge in exploration for Copper & Gold Salumbar, Udaipur, Rajasthan
- Officer In charge in exploration for Gold, Radioactive minerals Shivpuri, Madhya Pradesh

**Publications:**

**Research Articles:**

- **“Characteristic landforms and geomorphic features associated with impact structures: Observations at the Dhala structure, north-central India.”** A K Singh, J K Pati, R Sinha, W U Reimold, K Prakash, M Nadeem, S Dwivedi, D Mishra, A K Dwivedi Earth Surface Processes and Landforms , John Wiley & Sons, Ltd., 46:8, 1482-1503. (Impact Factor: 3.3)
- **“Geochemistry and magnetic measurements of suspended sediment in urban sewage water vis-à-vis quantification of heavy metal pollution in Ganga and Yamuna Rivers, India”** Chakarvorty, Munmun; Dwivedi, Akhil Kumar; Shukla, Anil Dutt; Kumar, Sujeet; Niyogi, Ambalika; Usmani, Maveria; Pati, Jayanta Kumar. Environmental Monitoring and Assessment. Sept, 2015, Vol. 187 Issue 9, p1, 17 p. ISSN: 0167-6369 (Impact Factor: 3.0)

**Abstracts:**

- Abstract titled **“Monitoring of Ganga river through geomagnetic measurements and water quality parameters at selected urban centers”** published in ICGCC – 2021 (International Virtual Conference in Geosciences with focus on Climate Change Perspectives (ICGCC 2021) held on 10th July 2021 organized by Mohanlal Sukhadia University, Udaipur, Rajasthan
- Abstract titled **“Assessment of river health using magnetic measurement”**; International Geological Congress
- Abstract titled **“Evaluation of base metal potential around Salumbar, district Udaipur, Rajasthan”**; International Geological Congress
- Abstract titled **“A Report on recent find of a VMS like Copper-Gold Mineralisation in the Alwar Basin of North Delhi Fold Belt, Western India by GSI”** Sharma, Jai Prakash & Dwivedi, Akhil Kumar; GEOYOUTH: 9<sup>th</sup> All India Students Symposium on Geology (February 23-24, 2019)

- Abstract titled “**Evaluation of Mineral Potential around Salumbar Area, Udaipur district, Rajasthan**” National Seminar on Geological Aspects of Northwest Indian Shield (March 15-16, 2019)
- Abstract titled “**Assessment of Heavy Metal Toxicity in River Sediments Using the Magnetic Susceptibility measurements**” National Seminar on Geological Aspects of Northwest Indian Shield (March 15- 16, 2019)
- Abstract titled “**Effect of elevated temperature on geotechnical behaviour of dimension stones**” National Seminar on Geological Aspects of Northwest Indian Shield (March 15-16, 2019)
- “**Climatic history of Banas River by geochemical analysis of major oxides**” at Physical Research Laboratory, Ahmedabad; Project Report
- “**Dhala Impact Structure - Geological mapping, geomorphology and some petrographic observations**” by remote sensing, field studies and lab studies at Department of Earth and Planetary Sciences, University of Allahabad, Allahabad as part of M.Sc. dissertation
- “**Geomorphology of Planetary Impact Craters excluding Earth**” - a term paper

#### **Research Project:**

- Heavy metal apportionment of geogenic and anthropogenic sources in Ganga River using Geomagnetic and Geochemical studies; 41.75 lakhs under RUSA (R&I) of MHRD, GoI; Ongoing

#### **Internship and Training:**

- **Geological Field Training in Igneous and Sedimentary terrains** of Vindhyan Rocks in area around Chitrakoot – Gupt Godavri – Hanumandhara – Bharatkoop during 26 – 29 November 2014 under guidance of **Prof. S K Tandon**.
- **Geological Field Training and Mapping Exercise** during 15 – 24 January 2014 in Galudih, Jharkhand for structural mapping and Ghatsila, Jharkhand for study of various sedimentary structures and Digha, West Bengal for coastal environment, under the guidance of **Dr. S S Das**.
- Completed “**Summer Internship Program – 2013**” at Geosciences Division, Physical Research Laboratory, Ahmedabad during 15 May – 12 July 2013 on Project titled “**Sedimentation and Climatic history of Banas River during late Quaternary**” under the guidance of **Dr. Anil D Shukla**.
- **Geological Field Training and Mapping Exercise** during 10 – 15 February 2013 in Bundelkhand Craton near Babina, UP under the guidance of **Prof. J K Pati**.

- **Geological Field Training in Igneous and Sedimentary terrains** of Vindhayan Rocks in area around Chitrakoot – Manpur – Bharatkoop during 9 – 11 November 2012 under guidance of **Dr. Jayanta K Pati & Dr. S S Das**.
- **Geological Field Training and Mapping Exercise** during 11 – 17 January 2012 in Bundelkhand Craton near Babina, UP under the guidance of **Dr. Jayanta K Pati**.
- **Geological Field Training in Igneous and Sedimentary terrains** of Vindhayan Rocks in area around Chitrakoot – Manpur – Bharatkoop during 11 – 13 February 2010 under guidance of **Prof. A K Gupta**.
- Completed various training modules conducted by in house training institute “**Gurukul**” of Mineral Exploration Corporation Limited, Nagpur including orientation training course, 3D ore body modelling, etc.
- Attended Two Weeks Professional Development Programme in Indian Institute of Technology (Indian School of Mines) Dhanbad, Jharkhand on **Ore reserve estimation and Geostatistics**. Course Coordinator: Prof. B C Sarkar

#### Technical Skills:

- WD-XRF (Wavelength Dispersive – X Ray Fluorescence Spectrometer) of PAN analytical Axios at Physical Research Laboratory, Ahmedabad.
- Renishaw Raman System RM 1000B at Indian Institute of Technology Kharagpur, Kharagpur.
- ICP-MS (Inductively Coupled Plasma – Mass Spectrometer at Physical Research Laboratory, Ahmedabad.
- X-Ray Diffraction spectrometer at National Center for Experimental Mineralogy and Petrology, University of Allahabad, Prayagraj, Uttar Pradesh.
- Thin Section cutting and polishing instruments at DEPS, University of Allahabad, Prayagraj, Uttar Pradesh.
- Petrological and stereoscopic Microscopes at DEPS, University of Allahabad, Prayagraj, Uttar Pradesh.
- Magnetic Susceptibility Meter at DEPS, University of Allahabad, Prayagraj, Uttar Pradesh.
- Refracto-meter for Refractive index of minerals and gem stones at DEPS, University of Allahabad, Prayagraj, Uttar Pradesh.
- Rock cutting, Crushing and Powdering at DEPS, University of Allahabad, Prayagraj, Uttar Pradesh.

#### Workshop and Conferences:

- Attended **IMPRESS – Inspiring Minds of Post Graduates for Research in Earth and Space Sciences** during March 19-21, 2014 at Dr. K. S. Krishnan Geomagnetic Research Laboratory, Allahabad of Indian Institute of Geomagnetism, Mumbai

- Attended **Fourteenth PLANEX Workshop on “Instrumentation for planetary Exploration”** at **Dharmsinh Desai University (DDU), Nadiad, Gujarat** during January 6-10, 2014. Also completed a short project on **“X ray detector and frontend Instrumentation”** as a team member under the mentorship of **Dr. Y.B.Acharya and Mr. M Shanmugam of PRL, Ahmedabad.**
- Attended National Workshop on **“Exploring Radiations in Many Splendors” RAD – 2013** at **Saha Institute of Nuclear Physics (SINP), Kolkata** during 23-24 November 2013.
- Attended **4<sup>th</sup> Science Conclave: A Congregation of Nobel Laureates and Eminent Scientist**, an **MHRD DST** initiative at **Indian Institute of Information Technology, Allahabad (IIIT-A)** during November 26 – December 02, 2011.

#### **Co-Curricular Activities:**

- Worked for **National Service Scheme** for two years during 2010-12.
- Presented poster in **First National Conference BRiP** at **IIT-Kanpur** from the Department on 4 – 5 November 2011.
- Presented a paper titled **“Characterization of rocks from Gale crater, Mars using Alpha Particle X-ray Spectrometer (APXS) data and their comparison with terrestrial rocks - inferences and implications”** in **14<sup>th</sup> PLANEX Workshop** at **DDU, Nadiad** during January 6- 10, 2014.
- Represented University in **GeoConfulence** also won **1<sup>st</sup> prize in Shutterberg** at **ISM, Dhanbad** on 21-23 March 2013.

#### **Professional Memberships:**

- Life Member of **Indian Science Congress**
- Life Member of **Indian Geological Congress**
- Life Member of **Geological Society of Rajasthan**

#### **Fellowships:**

- GATE 2014 AIR 151,
- GATE 2015 AIR 633,
- GATE 2017 AIR 413,
- CSIR (JRF) (NET) June 2013 AIR 24,
- UGC (NET) (JRF) December 2013 AIR 88