



Panjab University

Estt. under the Panjab University Act VII of 1947

**Department of Geology, Panjab University, Chandigarh
Sector 14, 160014, India; <http://www.pu.ac.in>**

Dr. Debabrata Das

Assistant Professor

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Ref. No.: 37/GR

Dated: 19/01/2024

Advertisement for the post of Junior Research Fellow

Applications are invited from Indian nationals with highly motivated and bright candidates for the position of Junior Research Fellow (JRF) (Nos. 2) in the following research project funded by Ministry of Coal (MoC), Government of India, under the supervision of Dr. Debabrata Das, Department of Geology, Panjab University, Chandigarh. Eligible and interested candidates should send their detailed resume (CV) in the given format through e-mail to **Dr. Debabrata Das** (debabratadas@pu.ac.in) mentioning subject as “Application for **JRF under MoC Project**” on or before **11/02/2024 (Sunday); 17.00 hrs.** The appointment will be made urgently after fair competitive selection process as per Panjab University, Chandigarh recruitment norms.

Project Details:

Title- Development of Indigenous technology for extraction of critical minerals including rare earth elements from overlying strata of Northeastern coalfields, Assam, India.

Project Implementing Agency- Panjab University, India and Indian Institute of Technology Guwahati.

Project In charge- Dr. Debabrata Das (Principal Investigator), Dept. of Geology, Panjab University, Chandigarh, 160014.

Funding agency – Ministry of Coal, New Delhi, Government of India.

Duration – 24 months

Study area – North Eastern Coalfields region, Assam, India.

Position Details-

Name of Position- Junior Research Fellow (JRF)

No. of positions- Two (nos. 2)

Education Eligibility of Position-1: Masters in Geology/Applied Geology with 55% marks or above and qualified GATE/National Eligibility Test/ State Level Eligibility Test/ any level JRF qualified Test.

Education Eligibility of Position-2: Masters in Chemistry/ Applied Chemistry/ Material science/ Chemical Engineering/ Metallurgical and Materials Engineering with 55% marks or above and qualified GATE/National Eligibility Test/ State Level Eligibility Test/ any level JRF qualified Test.

Salary- Rs. 37000 pm + 16% HRA (fixed)

Duration- 02 Years or completion of the project, whichever is earlier. The position can be terminated with one month notice if the performance is found unsatisfactory at any point of the contract.



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Nature of Responsibility:

Position-1:

To carry out field work around the study site, collection of coal-soil-water-rock samples and laboratory analysis, physical beneficiation of overburden materials (Gravity, Magnetic, Particle size and froth flotation process) experimental work using the field samples, laboratory studies as per project need, data compilation and report writing.

Note: Candidate may enroll in Ph.D under supervision Dr. Debabrata Das in Department of Geology, Panjab University, Chandigarh.

Position-2:

To carry out acid leaching of different types of Geological materials, separation of different critical materials using ion exchange resin columns, laboratory experiments as per project need, data compilation and report writing.

Note: Candidate may enroll in Ph.D under joint supervision: Dr. Bharat Bajaj, Centre for Nanoscience & Nanotechnology Panjab University and Dr. Debabrata Das in Department of Geology, Panjab University, Chandigarh.

Age Limit and Relaxation: Not more than 28 Years. SC/ST/OBC/Women/PD candidates will get age relaxation as per Ministry of Coal (MoC), Govt. of India norms.

Work experience: *Position-1:* Prior laboratory experience on geochemical analysis and instrumental training on ICP-MS, ICP-OES/AES, AAS, XRD, TEM, SEM, UV-VIS spectrophotometer and working knowledge on ore beneficiation will be highly preferred.

Position-2: Prior laboratory experience on acid digestion of different kind of environmental samples and working knowledge on ion exchange resin will be highly preferred.

Application Documents and Procedure:

1. A cover letter stating how you are suitable for this position and brief field and instrumental skills relating to project needs
2. Resume showing all the academic and professional experience, present and permanent postal address, email and phone numbers as per attached format.
3. All degree certificates and mark sheets
4. All the documents should be sent in a single PDF file though email at debabratadas@pu.ac.in before the due date. Hard copies in original will be verified at the time of personal/online interaction/joining.
5. No TA/DA is entertained for this personal discussion of selected candidates.

Sincerely,

-sd-

(Debabrata Das)

(Principal Investigator)