BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES

(An Autonomous Institution under the Department of Science & Technology, Government of India, New Delhi)

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The Birbal Sahni Institute of Palaeosciences (BSIP), an autonomous institute under the Department of Science and Technology, Government of India, invites applications for the following position under the collaborative project titled "An Interdisciplinary Analytical Framework for High-Mountain Landslides and Cascading Hazards: Implications for Communities and Infrastructure." This project is a joint initiative between MoES, Government of India, and NERC, UK, with Dr. Sheikh Nawaz Ali as the Principal Investigator and Dr. Mayank Shekhar, Scientist (BSIP, Lko), Prof. Milap Chand (JNU, New Delhi), Director, BGRL (MoES New Delhi), Prof. Kavita Suri (Jammu University), and Dr. Mayank Joshi, scientist (GB Pant, Sikkim) **as the Indian Co-Leads in the project.**

The successful candidate will join a vibrant, multidisciplinary team of researchers from India and the UK working at the forefront of remote sensing, geohazard modelling, and artificial intelligence (AI).

a	Name of the Post	Project Associate I (PA-I) - 01 Post
b	**Age**	Not exceeding 35 years on the last date of application. (*Age relaxation is admissible for candidates belonging to SC/ST/OBC categories as per Government of India rules*.)
c	**Essential Qualification**	Master's degree (or equivalent) in Remote Sensing, Geoinformatics, Computer Science, Earth Sciences, or a related discipline. Demonstrated expertise in machine learning, programming, and data science (strong proficiency in Python, TensorFlow/PyTorch, or equivalent tools is essential). Experience with SAR data processing (InSAR, SBAS, or PSInSAR) and geospatial software such as ESA SNAP,

GDAL, or Google Earth Engine.

Strong analytical skills, motivation for independent research, and enthusiasm for working in a multidisciplinary, international environment.

60% marks at both graduation and Master's levels.

National Eligibility Tests -CSIR-UGC NET including lectureship (Assistant Professorship) or GATE (28,000/- + HRA for the candidates who do not fall under this category. This implies only for streams where NET specific examination is not available. (please see the link. https://www.ugcnetonline.in/subjects.php)

Desirable: The research scholar is expected to develop advanced methods for landslide detection, deformation monitoring, and susceptibility modelling using multi-temporal Synthetic Aperture Radar (SAR) data and cutting-edge machine learning (ML) and deep learning (DL) techniques. The research will combine Earth observation data (e.g., Sentinel-1, TerraSAR-X, NISAR) with geospatial, climatic, and geological datasets to better understand slope instability processes across the Himalayan terrain.

d	Nature of work/ job requirements	Develop efficient SAR data processing pipelines for deformation mapping and time-series analysis.
		Design ML/DL-based algorithms for automated landslide identification and hazard prediction.
		Integrate SAR-derived products with complementary datasets for multi-source geohazard modelling.
		Contribute to collaborative research activities with project partners in the UK and India.
e	Remuneration (DST OM SR/S9/Z-05/2019 dt. 10.07.2020)	Remuneration: ₹31,000/- + HRA (as admissible) per month
f	Duration and what we offer	From the date of appointment until the project's closure or co-termination with the project.
		What We Offer
		Supervision within a leading MoES–UKRI international

		consortium providing global exposure and collaborative opportunities.
		Access to cutting-edge computational and satellite data resources.
		Field and training opportunities in the Indian Himalaya and potential short-term research visits to partner institutions.

Interview Details (Instructions for Application Submission)

1. **Mode of Application:**

Interested candidates must submit their applications **online** to snawazali@bsip.res.in. The decision of the Director, BSIP, regarding eligibility, application acceptance/rejection, and other matters shall be final. No correspondence or inquiries in this regard will be entertained.

2. **Important Notes:**
   o If interviews are postponed due to unforeseen circumstances, they will be conducted on the next working day.
   o Candidates must have a valid email ID and mobile number, which should remain active until the final results are declared. All communication regarding the application will be sent to the provided email ID or mobile number.
   o The cut-off date for determining eligibility, including essential qualifications and age limits, is the closing date of the application.
   o Relaxations in the upper age limit for eligible categories (such as persons with disabilities, government employees, ex-servicemen, and Kashmiri migrants) will be as per DoPT guidelines (O.M. No. 15012/2/2010-Estt.(D), dated 27.03.2012).
   o Possessing the prescribed minimum qualifications does not automatically entitle candidates to be shortlisted for the written test/interview.

3. **Selection Process:**
   o BSIP reserves the right to cancel or modify the recruitment process or the number of vacancies without assigning reasons.
   o In case of a large number of applications, shortlisting will be conducted based on essential/desirable qualifications, academic performance, relevant experience, or other criteria decided by the screening committee.

- o Shortlisted candidates will be informed about the written test/interview schedule through email.

4. **General Guidelines:**
   - o Canvassing in any form or attempting to influence the process will result in disqualification.
   - o Candidates must produce original documents to verify the details provided in their applications. Failure to do so will result in disqualification.
   - o The number of advertised vacancies is subject to change as per government approval.

How to Apply:

a) Applications will only be accepted through email.

b) Applicants must upload scanned copies of their latest CV, a 500-word note detailing their motivation and research interests, a recent photograph, signature, and self-attested copies of supporting documents. These include mark sheets (for all semesters), degree certificates, proof of date of birth, experience certificates, and caste certificates. If any document is in a language other than English, an attested translation must also be provided.

Application Deadline: The last date for submitting the application to snawazali@bsip.res.in is **5 PM on 31.12.2025**.

Please note that the incumbent will have no claim for regular absorption in the institute or the Department of Science & Technology, Government of India. No TA/DA will be provided to attend the interview.

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