

BIRBAL SAHNI INSTITUTE OF PALAEOSCIENCES

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

53, University Road, Lucknow (U.P.) Website: www.bsip.res.in

Fax: 0522-2740485/2740098

ADVERTISEMENT

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. (<i>Age relaxation is admissible for candidates belonging to SC/ST/OBC categories as per Government of India rules.</i>)
c	Essential Qualification	Master's degree (or equivalent) in Computer Science, Computer Applications (MCA), Information Technology, Data Science, or a related discipline, OR a Bachelor's degree in Engineering/Technology (B.E./B.Tech.) in Computer Science, Information Technology, or an allied branch, from a recognized university. Demonstrated programming ability, with strong proficiency in Python and at least one additional language (C/C++, Java, JavaScript, or R), together with working knowledge of version control (Git) and the Linux/command-line environment. Experience in database design and management (PostgreSQL/PostGIS, MySQL, or equivalent) and in

		writing scripts, tools, or applications for automated data processing and quality control. Strong analytical and problem-solving skills, the ability to write clear and well-documented code, 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: Preference will be given to candidates with experience in geospatial programming and analysis (GDAL, GeoPandas, rasterio, QGIS/ArcGIS scripting, or Google Earth Engine); web application and dashboard development (Django/Flask, React, or equivalent) for data visualisation and dissemination; handling of remote sensing, field, or social survey datasets; machine learning frameworks (scikit-learn, TensorFlow/PyTorch); and familiarity with statistical packages (R, SPSS) and reproducible research workflows. The selected candidate will be responsible for building and maintaining the computational and data-management backbone of the project.
d	Nature of work/ job requirements	Develop advanced computational methods for landslide detection, susceptibility modelling, and hazard prediction by combining Earth observation data with geospatial, climatic, and socio-economic datasets. Build the software, database, and pipeline infrastructure that supports these methods, to a standard allowing reuse by project partners. Translate research outputs into decision-support and visualisation tools for stakeholders and end-users, and evaluate their usability in the field. Contribute to joint research activities, publications, and fieldwork with 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:

- If interviews are postponed due to unforeseen circumstances, they will be conducted on the next working day.
- 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.
- The cut-off date for determining eligibility, including essential qualifications and age limits, is the closing date of the application.
- 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).
- Possessing the prescribed minimum qualifications does not automatically entitle candidates to be shortlisted for the written test/interview.

3. Selection Process:

- BSIP reserves the right to cancel or modify the recruitment process or the number of vacancies without assigning reasons.

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

2. General Guidelines:

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- The number of advertised vacancies is subject to change as per government approval.

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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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विज्ञापन

बीरबल साहनी पुराविज्ञान संस्थान (BSIP), जो विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्थान है, सहयोगात्मक परियोजना “An Interdisciplinary Analytical Framework for High-Mountain Landslides and Cascading Hazards: Implications for Communities and Infrastructure” के अंतर्गत निम्नलिखित पद के लिए आवेदन आमंत्रित करता है। यह परियोजना भारत सरकार के पृथ्वी विज्ञान मंत्रालय (MoES) तथा NERC, यूनाइटेड किंगडम की एक संयुक्त पहल है। इस परियोजना के प्रधान अन्वेषक (Principal Investigator) डॉ. शेख नवाज़ अली हैं तथा डॉ. मयंक शेखर, वैज्ञानिक (BSIP, लखनऊ); प्रो. मिलाप चंद (JNU, नई दिल्ली); निदेशक, BGRL (MoES, नई दिल्ली); प्रो. कविता सूरी (जम्मू विश्वविद्यालय); तथा डॉ. मयंक जोशी, वैज्ञानिक (GB Pant, सिक्किम) परियोजना में भारतीय सह-प्रमुख हैं।

चयनित अभ्यर्थी भारत एवं यूनाइटेड किंगडम के शोधकर्ताओं की एक बहुविषयक टीम के साथ कार्य करेगा/करेगी। टीम का अनुसंधान **Remote Sensing, Geohazard Modelling और Artificial Intelligence (AI)** जैसे उन्नत क्षेत्रों पर केंद्रित है।

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		Experience in database design and management (PostgreSQL/PostGIS, MySQL, or equivalent) and in writing scripts, tools, or applications for automated data processing and quality control. Strong analytical and problem-solving skills, the ability to write clear and well-documented code, 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: Preference will be given to candidates with experience in geospatial programming and analysis (GDAL, GeoPandas, rasterio, QGIS/ArcGIS scripting, or Google Earth Engine); web application and dashboard development (Django/Flask, React, or equivalent) for data visualisation and dissemination; handling of remote sensing, field, or social survey datasets; machine learning frameworks (scikit-learn, TensorFlow/PyTorch); and familiarity with statistical packages (R, SPSS) and reproducible research workflows. The selected candidate will be responsible for building and maintaining the computational and data-management backbone of the project.
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