

राष्ट्रीय विज्ञान शिक्षा एवं अनुसंधान संस्थान भुवनेश्वर

परमाणु ऊर्जा विभाग, भारत सरकार का एक स्वयं शासित संस्थान

(अनुसंधान और विकास अनुभाग)

NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHUBANESWAR

(An autonomous research institution under Department of Atomic Energy, Govt. of India) Jatni, Khurda, Odisha - 752050

Research & Development Section

Advertisement No.: NISER / R&D-198 / EPS2001 / 43 / 2023-24

Research opportunity in interdisciplinary Planetary Science project from Max Planck Society

Max Planck India Partner Group led by Dr. Thangjam at NISER Bhubaneswar (funded by Max Planck Society/Germany) is inviting highly motivated Indian nationals for a Project Assistant position. The project (up to 2026) is in collaboration with Max Planck Institute for Solar System Research, Göttingen/Germany and others (University of Winnipeg/Canada, Planetary Science Institute, Arizona/USA). The work is interdisciplinary in nature (processing & analyzing NASA Dawn VIR/Visual & Infrared Imaging Spectrometer data) and the science objective is to investigate the formation of dwarf planet Ceres either in the main asteroid belt or migrated from the outer solar system. The main work is divided into data processing and analysis. The VIR data processing includes first 2 steps- (1) Thermal correction- Quantifying emissivity considering surface roughness and observation geometry in order to determine actual reflectance, (2) Photometric correction-Quantifying reflectance wrt a standard illumination geometry considering the wavelength dependent scattered light in a given heterogeneous natural surface. Next is data analysis and study the evolution process: (3) Spectral analysis- study the absorption features, mainly ~3.1 μm, investigating the mineral/molecule and the process (NH₄+/H₂O/OH·/ice/Mg₂(OH)₄, and their association with Fe/Mg/Ca/Al-Si₂O₅ silicate and Fe/Mg/Ca/Na-CO₃, (4) Evolution model- study and model assessing the thermodynamic/kinetic conditions within or far beyond the water-snowline.

QUALIFICATION: Candidate must be having a BSc degree in Geology/ Geophysics/ Physics/ Chemistry/ Computer-Science or three years Diploma in Engineering & Technology in Computer/Civil/Electrical/Mechanical/Space engineering from a recognized University.

<u>DESIRABLE:</u> MSc degree from a recognized University with proficiency in python program and basics in physical chemistry & spectroscopy.

FELLOWSHIP: ₹20,000/- pm plus HRA (as per rules)

<u>MAXIMUM AGE</u>: 50 years as on last date of receiving of application, age relaxation to entitled categories as per GOI rules.

Mode of selection: Online/Offline

The position is purely temporary and initially offered for a period of 6 months but extendable on satisfactory performance (to allow monitoring the progress constructively) or completion of project whichever is earlier and strictly co-terminus with the project. It would, therefore, not confer any right/claim, implicit, or explicit for consideration/ absorption against any NISER post.

Interested candidates may send the application (page 2-3 of the advt.), CV, SOP indicating research interest and programming proficiency and knowledge in physical-chemistry/ spectroscopy/ Mineralogy/ Geochemistry, and scanned copies of relevant educational certificates, and two recommendation letters by the thesis/project/course guide to thangjam@niser.ac.in by 21.02.2024. Please check https://oldsite.niser.ac.in/users/thangjam or https://www.niser.ac.in/profile/thangjam and contact Dr. Thangjam for further information.

No TA/DA will be paid to the candidate for appearing in the interview or joining the position.



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(अनुसंधान और विकास अनुभाग)

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विज्ञापन संख्या : NISER / R&D-198 / EPS2001 / 43 / 2023-24 भर्ती के लिए आवेदन पत्र

Application for recruitment to the post of Project Assistant

Paste your recent $colour\ passport$ photograph

1.	पूरा नाम (स्पष्ट अक्षरों में) Full Name (In Block I	Letters):						
2.	पिता / पति का नाम Father's / Husband's Name:							
3.	जन्मतिथि Date of Birth	:						
4.	उम्र Age as on (दिनांक 21.02.2024)	:						
5.	पत्राचार के लिए डाक का पता	:						
	Postal Address for Correspondence							
6.	स्थाई पता Permanent Address	:						
7. (a) कॉन्टैक्ट नं Contact No.	:						
(b) ई-मेल E-mail	:						
8. 3	म्या अ.जा./ अ.ज.जा./अ.पि.व./ शा.वि. में आते हैं ?	:						
Ţ	Whether belongs to SC/ST/OBC/PWD							
(जाति प्रमाण-पत्र का नकल संलग्न किया जावे Copy of G	Caste Certificate to be enclosed)						
1	त्या CSIR-UGC NET / GATE में योग्य हैं ? Whether CSIR-UGC NET / GATE qualified? (प्रमाण-पत्र का नकल संलग्न किया जावे Copy of the C	:ertificate to be enclosed)						

). शैक्षणिक योग्यताएँ (स्नातव	र से) Educational Q	ualifica	ations (S	tarting	from Grad	uation):		
परीक्षा का नाम । Name of the Examination	बोर्ड/ विश्वविद्यालय/ संस्थान Board/ Univ./ Institute		उत्तीर्ण होने का वर्ष Year of Passing		विषय Subjects		अंको का प्रतिशत Percentage of Marks	
. अनुभव, यदि कोई हो E	xperience, if any:							
संगठन/ नियोक्ताका नाम Name of Organisation/ Employer	माह f Period of on/ Service in Year		पदनाम Designation Sca Ba		ान तथा मूल/ कल वेतन of Pay & ic/ Gross bluments	कार्य की प्रकृति Nature of duties		
द्वारा दी गयी कोई जानका	सत्यनिष्ठा से पुष्ट करता / करती हूँ कि उपर्युक्त जानकारी मेरी अधिकतम जानकारी और विश्वास के अनुसार सही है। यदि रा दी गयी कोई जानकारी किसी भी चरण पर गलत पायी जाती है, तो मेरा आवेदन रद्द किया जा सकता है							
I do solemnly affirm and belief. If any in may be cancelled.			_	•			•	
दिनांक Date :								

आवेदक का हस्ताक्षर | Signature of Applicant

स्थान | Place :