



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-263 / EPS2203 / 33 / 2025-26

Research opportunity in interdisciplinary Chandrayaan-2 planetary science project

Indian nationals are invited for a **JRF** position in Chandrayaan-2 science project funded by ISRO/DoS. The work is interdisciplinary in nature- processing & calibration of IIRS spectrometer data, and then analysis to investigate for mantle exposure in lunar South Pole Aitken basin and also to investigate the nature of hydration. The overall work includes 4 major steps- (1) Feature offset problem- Quantifying and resolving the feature offset problem using feature matching algorithms (analytic / statistical / automated methods), (2) **Thermal correction**- Quantifying emissivity considering surface roughness and observation geometry, (3) **Photometric correction**- Quantifying reflectance w.r.t a standard illumination geometry considering the wavelength dependent scattered light in a particulate surface, (4) **Spectral data analysis**- study the absorption features, mainly ~ 1 -, ~ 2 -, ~ 3 - μm , and understand the physical and chemical processes (the interplay of multiple crystals/cations (e.g., $\text{Fe}^{2+}/\text{Mg}^{2+}/\text{Ca}^{2+}/\text{Al}^{3+}$) and anions (e.g., SiO_4^{4-}) in various surface conditions when exposed to the near-infrared charged photons).

QUALIFICATION: Minimum of 60% marks or equivalent GPA in Masters in Physics/ Astronomy and Astrophysics / Geology/ Geophysics/ Earth Science/ Chemistry/Mathematics/ Computer or M.Tech. or M.E with a minimum of 75% marks in aggregate or equivalent.

DESIRABLE: 1. Proficiency in python/programming, 2. Knowledge in Spectroscopy/Physical-chemistry/Mineralogy/Geochemistry

FELLOWSHIP:

1. ₹37,000/- + HRA (as per rules); to candidates who have valid National Level Examination, i.e., CSIR-UGC-NET (LS or JRF) /GATE/JEST/equivalent

Or,

2. ₹31,450/- +HRA (as per rules); to candidates who do not have, any National Level Examination, i.e. CSIR-UGC-NET (LS or JRF) /GATE/JEST/equivalent.

MAXIMUM AGE: 28 years as on 18.01.2026, age relaxation to entitled categories as per GOI rules

Mode of selection: Online/Offline Interview

The position is purely temporary for a period up to 31st March or completion of project whichever is earlier and strictly co-terminus with the project and not leading to any PhD degree in NISER. 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 18.01.2026. Please check <https://www.niser.ac.in/profile/thangjam> or contact Dr. Thangjam for further information.

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

Dean (R&D)



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विज्ञापन संख्या : **NISER / R&D-263 / EPS2203 / 33 / 2025-26**

भर्ती के लिए आवेदन पत्र

Application for recruitment to the post of **Junior Research Fellow**

*Paste your recent
colour passport
photograph*

1. पूरा नाम (स्पष्ट अक्षरों में) | Full Name (In Block Letters):

2. पिता / पति का नाम | Father's / Husband's Name: _____

3. जन्मतिथि | Date of Birth : _____

4. उम्र | Age as on (दिनांक **18.01.2026**) : _____

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. क्या अ.जा./ अ.ज.जा./अ.पि.व./ शा.वि. में आते हैं? : _____

Whether belongs to SC/ST/OBC/PWD

(जाति प्रमाण-पत्र का नकल संलग्न किया जावे | Copy of Caste Certificate to be enclosed)

9. क्या CSIR-UGC NET / GATE में योग्य हैं? : _____

Whether CSIR-UGC NET / GATE qualified?

(प्रमाण-पत्र का नकल संलग्न किया जावे | Copy of the Certificate to be enclosed)

10. शैक्षणिक योग्यताएँ (स्नातक से) | Educational Qualifications (Starting from Graduation):

| 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 |
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11. अनुभव, यदि कोई हो | Experience, if any:

| संगठन/ नियोक्ताका नाम Name of Organisation/ Employer | सेवा अवधि वर्ष तथा माह Period of Service in Year & Months | पदनाम Designation | वेतनमान तथा मूल/ सकल वेतन Scale of Pay & Basic/ Gross Emoluments | कार्य की प्रकृति Nature of duties |
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मैं सत्यनिष्ठा से पुष्ट करता / करती हूँ कि उपर्युक्त जानकारी मेरी अधिकतम जानकारी और विश्वास के अनुसार सही है। यदि मेरे द्वारा दी गयी कोई जानकारी किसी भी चरण पर गलत पायी जाती है, तो मेरा आवेदन रद्द किया जा सकता है।

I do solemnly affirm that the above information given by me is true to the best of my knowledge and belief. If any information given by me is found to be incorrect at any stage, my candidature may be cancelled.

दिनांक | Date :

स्थान | Place :

आवेदक का हस्ताक्षर | Signature of Applicant