

Recruitment of project staff in the project “Helium and Geothermal Exploration”

Applications on plain paper along with complete curriculum vitae including passport size photograph, Name, Date of birth, Postal address, Email id, Contact No., Educational qualification and Experience etc. are invited from eligible candidates for the post of Project Staff in the research project entitled “**Helium and Geothermal Exploration at Bakreswar-Tantloi Geothermal Area**” for a period of three years initially. Relevant detail information is given below. Applications complete in all respect should be sent to the Project Manager on or before November 5, 2014, 5.00 PM through post. Shortlisted candidates will be called for interview. No TA/DA will be paid for attending interview. The project manger has the right to restrict the number of candidates to be called for interview to a reasonable limit based on qualification and experience.

Terms and Conditions:

1. The applications will be screened and only short-listed candidates will be called for interview via email. No regular mail will be sent.
2. The above position is purely temporary, and performance will be evaluated every six months. Selected candidates will not be entitled to claim for regular appointments in this Institution.
3. Candidates called for interview should bring all the original mark-sheets, certificates etc. along with the attested copies of the same.
4. No TA/DA will be paid for attending the interview.
5. Canvassing in any form will disqualify the candidature.

Deadline for Application: November 5, 2014

How to apply:

Interested candidates are requested to send their application along with curriculum vitae having passport size photograph, Name, Date of birth, Postal address, Email id, Contact No. full particulars of Educational Qualifications, Experience, Publications, Research interests etc. to the Project Manager by post and also via email.

Candidates applying for the post of PDF/JRF should also mention the names and contact addresses (including email ID) of two referees who have known the candidates academically and professionally out of which at least one of the referees must be from candidate’s latest affiliating institute.

Candidates applying for the post of PDF must provide at least one page research proposal related with the mentioned subjects.

Applicant should clearly mention about the name of the post (with serial no. as given in the Table) at the top of the Application and also at Top Left Corner of the Envelope.

An incomplete application will not be considered.

Address for correspondence:

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& Project Manger : Exploration of Helium,
Geothermal Power and Earthquake Precursor Project
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Project Description:

The project aims to explore the Helium and Geothermal potential at Bakreswar and Tantloi Geothermal area situated at the border districts of Birbhum, West Bengal and Dumka, Jharkhand respectively. The area has a geothermal potential of around 90- 100 MW capacity having a large underground reservoir of Helium.

India is going to face serious crisis of helium in the near future. The helium which is used for country's rocketry science, space applications by ISRO, defence application by DRDO, nuclear power plants by DAE and also in MRI used in medical science is totally (100%) imported from abroad so far. The project aims to explore the underground Helium resources at Bakreswar and Tantloi Geothermal area. This will be the first attempt in the country to develop a plant to extract Helium in large scale from natural hydrothermal gas.

To achieve this, a deep bore-hole around 800 m deep will be made in the area. This bore hole will also serve as a source of natural steam for the proposed pilot geothermal power plant. There is no geothermal power (green and renewable energy) plant in India so far. During the exploration study, different geochemical and geophysical parameters will be monitored in the entire area and also in the deep bore hole using different equipments.

Moreover, presently the Helium Laboratory at Bakreswar is also engaged in the Earthquake Precursor study through geochemical monitoring based on hot spring gas emanation.

The laboratory at Bakreswar was established by legendary Prof. Satyendranath Bose and the then Chief Minister of West Bengal Dr. Bidhan Chandra Roy during the late sixties to initiate the Helium exploration activity in India. Subsequently the laboratory was operated by Govt of India, DST, DAE, MoES in collaboration with Saha Institute of Nuclear Physics, Kolkata and Variable Cyclotron Centre, Kolkata, Bose Institute Kolkata. Presently the laboratory at Bakreswar is operated by NIT Durgapur.

Bakreswar Tantloi geothermal area may provide substantial volume of Helium. Exploration of Geothermal energy will also show a new avenue to the country towards the development of a green energy (renewable energy) source.

Sl. No	Name of the post/ Designation	No. of vacancies	Fellowship/ Salary	Qualification required
1	Post-Doctoral Fellow (PDF)	Two	(i) Rs. 35,000/- pm (Consolidated) + (ii) Rs. 30,000/- pa as contingency grant	Essential : Ph. D degree. with Physics / Geology/ Geophysics/ Geochemistry/ Seismology/ Chemistry background and M. Sc. degree in Physics/ Geology/ Geophysics/ Geochemistry/ Seismology/ Chemistry with good academic record Desirable: Strong knowledge in computer programming using Fortran/ Matlab/ Origin/ Labview. Good writing skills/ Fluency in spoken English The persons must be suitable for fieldwork and capable for work as team leader in the field site.
2	Research Fellow (JRF/SRF)	Two	(i) For NET or GATE qualified candidate or candidates with M. Sc. degree followed by M. Tech.: Rs.16000 /- pm for first 2 years as JRF and Rs.18000/- pm for subsequent years as SRF OR For non-NET or non-GATE qualified candidate : Rs.14000 /- pm for first 2 years as JRF and Rs.16000/- pm for subsequent years as SRF + (ii) HRA (as per approved rates of NITD) + (iii) Rs. 30,000 /- as contingency grant	Essential : M. Sc. degree in Physics/ Geology/ Geophysics/ Geochemistry/ Seismology/ Chemistry with good academic record NET or GATE qualified or candidates with M. Sc. degree followed by M. Tech. with good academic record candidates will be preferred Desirable: Strong knowledge in computer programming using Fortran/ Matlab/ Origin/ Labview. Good writing skills/ Fluency in English The persons must be suitable for fieldwork
3	Project Assistant	Two	As per the rule of NITD, following the GOI criteria for recruitment of manpower (Skill/Semiskill/Unskill) through outsource agencies	Essential : Science Graduate or diploma in Technical Subjects The persons must be suitable for fieldwork with knowledge of computer MS Office - MS Word, MS Excel, Power Point etc. Graphical software and capable of handling of scientific data
4	Office Assistant	One	As per the rule of NITD, following the GOI criteria of recruitment of manpower (Skill/Semiskill/Unskill) through outsource agencies	Essential : Graduate in any discipline with knowledge of computer, MS Office package - MS Word, MS Excel, Power Point etc. and capable of handling of account sheet etc. with fair communication skill

Age limit:

JRF – Age limit maximum 28 years.

PDF - Age limit Maximum 35 years

Project Assistant / Office Assistant Age limit Maximum 35 years

Age Relaxation: Upper age limit will be relaxed upto 5 years for SC/ST/OBC/Women and Physically handicapped candidates.

Benefits and Service Conditions:

Access to library, books and journals for PDF/JRF/SRF:

PDF/JRF/SRF shall be entitled to accesses all Library facilities of NITD.

Travelling Allowance (TA):

PDF/JRF/SRF may be permitted to attend academic meeting / conference/seminar/workshop in India and abroad as per the rule of NITD; in case to case basis on the recommendation of the Project Manger or other competent authority of the project. TA will be paid for the said purpose as per the rule of NITD

Visit to Bakreswar-Tantloi Geothermal Field from NITD and vice-versa for research activities, TA will be paid to all the project staff including PDF/JRF/SRF as per the rule of NITD.

Contingency Grant:

The contingency Grant will be given to JRF/SRF/PDF in order to meet the expenditure towards purchase of books, stationery, purchase of software and hardware, journals, mailing expenses and travel for attending seminars and conferences.

The reimbursement of actual cost of work related travel other than indicated above, tuition fee, registration fee, thesis evaluation fee and any other similar fee, wherever applicable paid by the students/ research scholars to the institute will not be part of the Contingency Grant.

The Contingency Grant will be paid on reimbursement basis against the actual bills.

Leave:

30 days paid leave per year in addition to casual leave as per rules of NITD. Maternity/ Paternity leave shall be admissible as per Government of India instructions. Participation in any scientific event in India or abroad will be treated as on duty.

While pursuing the course work during the first year of Ph. D programmes or for any extended duration, leave will be limited to regular vacations as per the programme of the Institute/ R & D Centre.

The leave for project staff other than PDF/JRF/SRF will be governed by the rules of NITD applicable to the manpower recruited at NITD through outsourced agencies.

Medical Benefits:

JRF/SRF/PDF will be entitled for Medical Allowances as per the rules of NITD. The project staff other than JRF/SRF/PDF will get the medical benefit as per the GOI rule, following the criteria of recruitment of manpower through outsource agencies as per the rule of NITD.

Bonus/ LTC/ Retirement Benefits:

Not entitled.

House Rent Allowance (HRA):

HRA will be given to the JRF/SRF as per the approved rates of NITD.

Others:

Campus facilities at NITD like access to Computer Centre, Central library, Canteen facilities etc. will also be made available to the project staff.

The Place of Work:

The Project Staff will be stationed either at Helium Laboratory, Bakreswar, Birbhum, WB or at Helium Laboratory, Tantloi, Dumka, Jharkhand or at NIT Durgapur as and when required and as per the decision of the competent authority.

Tenure of Fellowship/ Duration of Work:

Initially for three years.