

# GOVERNMENT OF INDIA NATIONAL CENTRE FOR SEISMOLOGY MINISTRY OF EARTH SCIENCES MAUSAM BHAWAN COMPLEX, LODHI ROAD NEW DELHI-110003.

#### RECRUITMENT NOTICE

### No. S-03012/1/2017/Manpower/NCS

Applications are invited from Indian citizens for filling up of 66 (sixty six) posts at various capacities for engagement on Project Mode (contract) under various projects of National Centre for Seismology (NCS), Ministry of Earth Sciences (MoES): National Seismological Network (NSN); National Program on Earthquake Precursors (NPEP); Seismic Microzonation (SM); Koyna Scientific Deep Drilling Programme under Borehole geophysical Research Laboratories (BGRL); initially for a period of one year. These posts are purely on temporary basis and likely to be extended as per the extension of the project and the performance of the hired professionals by the competent authority.

The selected candidates for the project of Scientific Deep Drilling Programme, BGRL will be posted at Borehole Geophysics Research Laboratory, MoES, Karad- 415114, Maharashtra.

The details of the posts to be filled, along with the duties and responsibilities, project-wise are given below:

# 1. Project-National Seismological Network (NSN)

S.No:	Category of posts	Post Code	No. of posts	Essential Qualification	Field of Specialization & Experience	Age limit	Emoluments per month (Rs.)
1	Consultant	NSN01	02	Ph.D. in the field of Seismology / Applied Geophysics / Physics / Geosciences.  OR  Master's Degree in Engineering in the field of Electronic Engineering / Instrumentation Engineering from a recognized university.	<ul> <li>At least 20 years of working experience / R&amp;D/ teaching in any one field or more in following areas:         <ul> <li>a) Seismology and Earthquake related matters</li> <li>b) Operational Seismology, establishing seismological observatories, managing 24x7 operational centres, seismic data management and networking.</li> <li>c) Electronic Instrumentation specially in Data Acquisition Systems and Communication technologies</li> <li>d) Applied Geophysics</li> </ul> </li> <li>Must be Senior level Scientists /Engineers / Academicians from central government service.</li> <li>Good communication skills and experience in Report writing</li> <li>Published research work.</li> </ul>	70 years	Rs. 80,000/- (Governed by rul es of MoES / Go vt. of India and GFR guidelines of Ministry of Fi nance).

2	Project Scientist - II	NSN02	03	Post Graduate Degree (M.Tech/M.Sc.(Tech)/ M.Sc.) in Geophysics/ Geology/Seismology from a recognized university/Institute with at least 60% marks at the qualifying degree level.  OR  B.E./B.Tech in Electronics & Communication/IT/Computers from a recognized university/institution with at least 60% marks at the qualifying degree level.  OR  MCA or equivalent from a recognized university/institution with at least 60% marks at the qualifying degree level.	Minimum three years' experience in earthquake monitoring, Micro earthquake surveys etc. or working knowledge & research experience in the field of earthquake source processes, crust and upper mantle structure and attenuation characteristics of the earth's interior, etc. or operation and maintenance of digital seismic instruments.  OR  Minimum three years' experience in Hardware and software related aspects of various computers and communication network systems.	40 years	67,000/-+ HRA. Increment of 5% for every 2 years of experience subject to performance review.
3	Project Scientist - I	NSN03	07	Post Graduate Degree (M.Tech./ M.Sc. (Tech)/ M.Sc.) in Geophysics/Geology/Seismology from a recognized university/ Institute with at least 60% marks at the qualifying degree level.  OR B.E./B.Tech in Electronics & Communication/IT/Computers from a recognized university/institution with at least 60% marks at the qualifying degree level.  OR Post Graduate Degree (M.Sc.) in Physics with specialization in electronics or equivalent from a	At least 1-year Experience and working knowledge in:  Seismic data analysis or interpretation of weak as well as strong motion data or earthquake monitoring Microearthquake surveys  OR  Working knowledge & research experience in the field of earthquake source processes, crust and upper mantle structure and attenuation characteristics of the earth's interior, earthquake source parameter	35 years	56,000/-+HRA. Increment of 5% for every 2 years of experience su bject to perform ance review.

				recognized university/ institution	estimation using computer		
				with at least 60% marks at the qualifying degree level.  OR	algorithms and information dissemination etc.		
				MCA or equivalent from a recognized university/institution with at least 60% marks at the qualifying degree level.	OR  Experience in earthquake Data base		
4	Research Associate (RA)-II	NSN04	04	Post Graduate Degree (M.Tech / M.Sc.(Tech) / M.Sc.) in Geophysics / Geology / Seismology / Geosciences/ (M.Sc.) in Physics with specialization in Electronics from a recognized university/ Institute with at least 60% marks at the qualifying degree Level.  OR  Bachelor Degree in Engineering in the field of Electronic and Communication Engineering / Computers / IT/ Computer Applications / Instrumentation Engineering from a recognized university with at least 60% marks at the qualifying degree level.	<ul> <li>management.</li> <li>Working experience in the following at least one or more areas:</li> <li>Installation and configuration of Seismic Data Acquisition Systems for operation in local and regional seismological networks.</li> <li>Monitoring the functioning of Seismic data acquisition system and data flow.</li> <li>Continuous seismic waveform data and its meta data management for permanent archival and storage purposes.</li> <li>Computer Hardware and software related aspect of various computers and communication network systems.</li> <li>Seismic Data interpretation for earthquake source parameters determination.</li> <li>24x7 Earthquake Monitoring Centre.</li> </ul>	35 years	49,000/- + HRA

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				Post Graduate Degree (M.Tech /	_ = =	35	47,000/- + HRA
				M.Sc.(Tech) / M.Sc.) in	at least one or more areas:	years	
				Geophysics / Geology / Seismology			
				/ Geosciences / (M.Sc.) in Physics	• Installation and configuration of		
				with specialization in Electronics			
				from a recognized university/	1 3		
				Institute with at least 60% marks at	'		
				the qualifying degree Level.	Monitoring the functioning of		
					Seismic data acquisition system		
				OR	and data flow.		
	Research				Continuous seismic waveform		
5	Associate	NSN05	04	Bachelor Degree in Engineering in			
	(RA)-I	1101105	01	the field of Electronic and			
	(IXA)-1			Communication Engineering /			
					archival and storage purposes.		
				Computers / IT/ Computer	Compater Haraware and Bortware		
				Applications / Instrumentation	Terated aspect of various		
				Engineering from a recognized	computers and communication		
				university with at least 60% marks	network systems.		
				at the qualifying degree level.	Seismic Data interpretation for		
					-		
					earthquake source parameters		
					determination.		
					• 24x7 Earthquake Monitoring		
					Centre.		

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				Post Graduate Degree (M.Tech /	NET/GATE qualified candidates will	27	31,000/- + HRA
				M.Sc.(Tech) / M.Sc.) in	be given preference.	years	
				Geophysics / Geology / Seismology			
				/ Geosciences / (M.Sc.) in Physics			
				with specialization in Electronics			
				from a recognized university/			
				Institute with at least 60% marks at			
				the qualifying degree Level.			
	Research						
6	Fellow	NSN06	04	OR			
	(RF)						
	(14)			Bachelor Degree in Engineering in			
				the field of Electronic and			
				Communication Engineering /			
				Computers / IT/ Computer			
				1			
				Applications / Instrumentation			
				Engineering from a recognized			
				university with at least 60% marks			
				at the qualifying degree level.			

S.No.	Position	Duties & Responsibilities
1	Consultant	Plan and assist in carrying out seismological studies related to installation of seismological observatory. Serve as a mentor for early-career scientific and technical staff.
2	Project Scientist I&II	Undertaking field survey for the installation of Seismological Observatory, analysis of earthquake waveforms, data acquisition, processing and interpretation, development of required software in geophysics/seismology, preparation of earthquake bulletin. Assist scientists in undertaking field surveys and data acquisition in remote locations, establishing observatory and other infrastructure, maintaining field and laboratory equipment. To work in 24x7 Earthquake Monitoring Centre as Duty Staff as and when required.

	Research Associate	Seismic Data interpretation. Installation and configuration of Seismic Data Acquisition Systems for operation in local and	
	(RA)-I/II 3 and Research Fellow (RF)	regional seismological networks. Monitoring the functioning of Seismic data acquisition system and data flow. Continuous	
		seismic waveform data and its meta data management for permanent archival and storage purposes. Computer Hardware	
			and software related aspect of various computers and communication network systems. 24x7 Earthquake Monitoring
			Centre. Earthquake Pre-cursory studies and to work in 24x7 Earthquake Monitoring Centre as Duty Staff as and when
		(KF)	required.

# 2. Project-National Project of Earthquake Precursor (NPEP)

SNo:	Category of posts	Post Code	No. of posts	<b>Essential Qualification</b>	Field of Specialization & Experience	Age limit	Emoluments per month (Rs.)
1	Research Associate (RA)-I	NPEP01	05	Post Graduate Degree (M.Tech / M.Sc.(Tech) / M.Sc.) in Geophysics / Geology / Seismology / Geosciences / (M.Sc.) in Physics with specialization in Electronics from a recognized university/ Institute with at least 60% marks at the qualifying degree Level.  OR  Bachelor Degree in Engineering in the field of Electronic and Communication Engineering / Computers / IT/ Computer Applications / Instrumentation Engineering from a recognized university with at least 60% marks at the qualifying degree level.	6	35 years	47,000/- + HRA

				• 24x7 Earthquake Monitoring Centre.		
Research Fellow (RF)	NPEP02	05	Post Graduate Degree (M.Tech / M.Sc.(Tech) / M.Sc.) in Geophysics / Geology / Seismology / Geosciences / (M.Sc.) in Physics with specialization in Electronics from a recognized university/ Institute with at least 60% marks at the qualifying degree Level.  OR  Bachelor Degree in Engineering in the field of Electronic and Communication Engineering / Computers / IT/ Computer Applications / Instrumentation Engineering from a recognized university with at least 60% marks at the qualifying degree level.	NET/GATE qualified candidates will be given preference.	27 years	31,000/- + HRA

S.No.	Position	Duties & Responsibilities				
1	Research Associate (RA)-I and Research Fellow (RF)	Seismic Data interpretation. Installation and configuration of Seismic Data Acquisition Systems for operation in local and regional seismological networks. Monitoring the functioning of Seismic data acquisition system and data flow. Continuous seismic waveform data and its meta data management for permanent archival and storage purposes. Computer Hardware and software related aspect of various computers and communication network systems. 24x7 Earthquake Monitoring Centre. Earthquake Pre-cursory studies and to work in 24x7 Earthquake Monitoring Centre as Duty Staff as and when required.				

# 3. Project-Seismic Microzonation (SM)

SNo:	Category of posts	Post Code	No. of posts	Essential Qualification	Field of Specialization & Experience	Age limit	Emoluments per month (Rs.)
1	Consultant	SM01	01	Post Graduate Degree M.Tech / M.Sc (Tech) / M.Sc in geophysics / Geology / Environmental Science with GIS knowledge/Remote Sensing with GIS knowledge/ Geoinformatics/ Civil Engineering with Geotechnical expertise / Physics with expertise in seismology field / Mathematics with expertise in seismology field from a recognized university / Institute.	<ul> <li>Must be Senior level Scientists         /Engineers / Academicians from         central government service</li> <li>Not less than 20-years of         Experience in field investigations         of geophysical and geotechnical         studies, sample analysis and         laboratory studies / and         processing / interpretation of         processed data / preparation of         technical reports related to         Seismology / Seismic         Microzonation.</li> </ul>	70 years	Rs. 80,000/- (Governed by rules of MoE S / Govt. of I ndia and GFR guidelines of Ministry of Fi nance).
2	Project Scientist - II	SM02	01	Post Graduate Degree M.Tech / M.Sc (Tech) / M.Sc in Geophysics/Geology/ Environmental Science with GIS knowledge/Remote Sensing with GIS knowledge/ Geoinformatics / Civil Engineering with geotechnical expertise / Physics with at least 60% marks at the qualifying degree level and with expertise in seismology field/ Mathematics with expertise in seismology field from a recognized university/ Institute.	Minimum 03- years of Experience on different aspects of Seismological data collection, interpretation and field investigation	40 years	67,000/-+ HRA. Increment of 5% for every 2 years of experience subject to performance review.

	Project	Project Scientist - SM03	3 01	Post Graduate Degree M.Tech / M.Sc (Tech) / M.Sc in geophysics / Geology/ Environmental Science with GIS knowledge / Remote Sensing with GIS knowledge/ Geoinformatics / Civil Engineering	Minimum one year Experience in scientific data collection, data processing / GIS-expertise of preparing maps / report writing evident from the publication of research papers on geo-scientific	years	56,000/-+HRA. Increment of 5% for every 2 years of experience su bject to performa nce review.
3	Scientist - I			with geotechnical expertise / Physics with expertise in seismology field / Mathematics with at least 60% marks at the qualifying degree level and expertise in seismology field from a recognized university/ Institute.	societal issues in the journal of repute.		
4	Research Associate (RA)-II	SM04	07	Post Graduate Degree M.Tech / M.Sc (Tech) / M.Sc in Geophysics / Geology / Environmental Science with GIS knowledge / Remote Sensing with GIS knowledge / Geoinformatics / Civil Engineering with geotechnical expertise / Physics with at least 60% marks at the qualifying degree level and expertise in seismology field / Mathematics with expertise in seismology field from a recognized university / Institute.	performance in the interview.	years	49,000/- + HRA

S. No.	Position	Duties & Responsibilities
1	Consultant	The hired temporary consultant for the said project will be responsible for providing his guidance and supervision to the field activities and researchers and scientists for acquiring field data through the qualified agencies as per the approved RFP of the project. He/she will support and assist the Project Director in every aspect of the field investigations, laboratory tests and data analysis including field design, planning and evaluation of the data collected by the qualified agencies. In addition to this, he / she will also evaluate data and reports on seismic microzonation available with other institutions / organizations of India for compiling the entire data set to generate comprehensive reports on seismic hazard microzonation for the cities as the end product under the project. With his / her available expertise he will help and advice for deployment of the multi-disciplinary tools of Geophysical, Geotechnical, Geo-environmental and Earthquake Engineering during investigations under the project. He / she should advice and monitor for hazard analysis, safely audit of the project during implementation and the various phases of the execution, with a very high degree of technical completeness.
2	Project Scientist I&II	They are of multi-disciplinary subject background who should know about different components of seismic microzonation and will be responsible in field investigations, lab investigations, compilation of data, data analyses and processing, interpretation, and generation of comprehensive reports on seismic hazard microzonation as the end products under supervision of Project Director / consultant / advisor. They will support and assist the field activities to be carried out by qualified agencies with smooth coordination with every unit involved in the project. They will also be involved in smooth liaison with district coordination committee during execution of the project.
3	Research Associate (RA)-II	They will conduct applied and basic aspects of seismology, geology, geotechnical, geo-environmental, etc., with a focus on the cities of India and they will assist the field investigations and data compilation activities of the project as per the guidelines and RFP of the project developed by Ministry of Earth Sciences. They will assist supervision of the field activities to be carried out by qualified agencies with smooth coordination with every unit involved in the project. They will substantially involve in analyzing data generation. He / she will involve in organizing professional meetings and workshop. They will work under supervision of project Director / consultant / Project scientists.

# 4. Project: Koyna Scientific Deep Drilling Programme, Borehole Geophysical Research Laboratory (BGRL). Karad, Maharashtra

S. No.	Category of Posts	Post Code	No. of Posts	Essential Qualification	Field of Specialization & experience	Age Limit	Emoluments per month (Rs.)
1.	Project Scientist - III	BGRL01	2	Master's degree in Geophysics or Geology or Seismology or equivalent with 60% marks in the qualifying degree level from a recognized University and 07 years' experience in R&D in the relevant area.	<b>Desirable</b> : Ph.D. in the relevant area; Experience in the field of seismology, scientific deep drilling and borehole geophysics, geothermics, structural geology, hydrogeology and modeling studies.	45 years	Rs. 78, 000/ + HRA. Increment of 5% for every 2 years of experience subject to performance review.
2	Project Scientist - I	BGRL02	4	Master's degree in Geophysics or Geology or Electronics or equivalent with 60% marks in the qualifying degree level from a recognized University.	<b>Desirable</b> : Ph.D. in the relevant area; Knowledge of borehole geophysics, seismology, geophysical/geological data acquisition, geothermics, structural geology, geochemistry, hydrogeology, experience in electronics and instrumentation and maintenance of data acquisition systems.		Rs. 56, 000 /- + HRA. Increment of 5% for every 2 years of experience subject to performance review.

3	Project Technical Officer / Senior Project Associate	BGRL03	3	B.Sc./B.Tech. degree with first class in Geology/ Environmental Science/Physics/ Electronics / Civil Engineering / Information Technology with 3 years' experience in R&D in relevant area AND M.Sc./M.Tech degree in Geology/ Geophysics/ Environmental Science/Physics/ Electronics / Civil Engineering / Information Technology or equivalent qualification from a recognized board or University with expertise in seismology field/ scientific drilling and measurements/ core curation/ geotechnical/ IT fields.	Desirable: Exposure in field surveys on basic/ applied aspects of seismology/ geotechnical/ geo-environmental fields/ establishment and maintenance of field seismological stations, well site operations, Drilling Information System, Core Curation, maintenance of geophysical laboratories, database/ information management system, geological/ geophysical/ geotechnical data acquisition, computer hardware/ software, maintenance of servers, firewall, networking and security.	40 years	Rs.42,000/- + HRA.
4	Project Technical Assistant	BGRL04	5	B.Sc. in the area of Geology or Electronics or Physics as one of the subject or 3 years Diploma in Engineering & Technology in Electrical/Civil/Computer science from a recognized institute.	<b>Desirable</b> : Experience in relevant area	50 years	Rs. 20,000/- + HRA. Increment of 15% for 3 years of experience with maximum ceiling of 4 such revisions, i.e., up to 12 years of experience.
5	Research Fellow/ Project Associate I/II	BGRL05	4	Research Fellow/ Project Associate-I: Masters' degree in Geophysics or Geology from a recognized university or equivalent.  Research Fellow/ Project Associate-II: Master's degree in Geophysics or Geology from a	<b>Desirable</b> : NET/GATE or equivalent qualification	28 years	For Research Fellow/ Project Associate-I: Rs. 31,000/- +HRA. (selected through CSIR- UGC NET including LS or GATE) / Rs.25,000 + HRA for others. For Research Fellow/

				recognized university or equivalent with 2 years of experience.			Project Associate-II: Rs.35,000/- + HRA (selected through CSIR- UGC NET including LS or GATE) / Rs.28,000 + HRA for others.
6	Personal Assistant (P.A.)	BGRL06	1	Graduation or equivalent from a recognized university with 1-year experience in secretarial/office management work; reading and writing skill in English and Hindi.	<b>Desirable</b> : Certificate/ Diploma in Office Management; good working knowledge in operation of computers and commonly used word processing softwares.	35 years	Rs.22,000/- + HRA.
7	Consultant (Admin)	BGRL07	01	Post Graduate Degree in Science from a recognized university with at least 20 years' experience in scientific projects / programmes, out of which minimum 3 years in PB-3 + GP Rs 5400 (or equivalent). Candidates understanding central government R&D department functioning and experience of working in the relevant Government Department / Institution would be preferred.	Desirable:  1) Experience in day-to-day administration of scientific projects / programmes, including handling of international training programmes, etc  2) Working knowledge of computer operation.	65 years	Rs. 35,000/- + Rs 3000/- (T.A.) (Governed by rules of MoES / Govt. of India and GFR guidelines of Ministry of Finance)
8	Visiting Fellow / Consultant (Drilling)	BGRL08	01	Essential: B.E./B.Tech. in Drilling/Mechanical / Petroleum engineering or in other relevant fields.  Experience: The candidate should have 15 years of experience (with a Ph.D. degree in the relevant subject) other wise		70 years	Rs. 10 lakhs per annum (Governed by rules of MoES / Govt. of India and GFR guidelines of Ministry of Finance)

				20 years of experience in E&P Industry; On-shore drilling managing multi rig and different modes of drilling operations; Conversant with the well engineering.	department functioning and experience of working in the relevant Government Department / PSU would be preferred.
9	Visiting Fellow / Consultant (Geology)	BGRL09	01	Essential: Ph.D. in Geology or equivalent from a recognized university.  Experience: At least 15 years of experience in structural geology, field mapping, petrography and geochemistry etc.	understanding earthquake processes.  70 years  Rs. 10 lakhs per annum (Governed by rules of MoES / Govt of India and GFR guidelines of Ministry

S.No.	Position	Duties & Responsibilities
1	Project Scientist -III	Planning and execution of scientific deep drilling and related field surveys, borehole measurements, setting up of laboratory facilities, field and laboratory data acquisition,
		processing and interpretation.
2	Project Scientist -I	Undertaking field survey, measurements in deep boreholes, laboratory studies, data
		acquisition, processing and interpretation, development of required software in geophysics
		/ seismology / geology, maintenance of deep borehole data acquisition systems.

3	Project Technical Officer	Assist scientists in undertaking field surveys and data acquisition in remote locations, establishing laboratory facilities and other infrastructure, maintaining field and laboratory equipments, serve as Curator for Core Repository, attend to trouble shooting and
		maintenance, ensure continuous data acquisition / data transfer to headquarters, Serve as Systems Administrator, etc.
4	Project Technical Assistant	Assist scientists in data acquisition in remote field areas and laboratory investigations, core curation, sample preparation, data entry and database management, maintenance of laboratories, electric substation and other infrastructure facilities.
5	Research Fellow / Project Associate I/II	Assist senior scientists / investigators in research investigations including field surveys, data collection, and handling lab equipments, etc.
6	Personal Assistant	Assist Director / senior officers in execution of various activities of the Research Laboratory.
7	Consultant (Admin)	Day-to-day administration related functions of the research laboratory, including liaison with the NCS / MoES for proper flow of funds and other administrative matters, liaison with local administration / other authorities for obtaining land / environment clearances, planning and execution of Projects, recruitment / promotions of employees, Purchase & Stores, etc. He will be required to advice Director on administrative matters.
8	Visiting Fellow / Consultant (Drilling)	Design, plan and supervise scientific deep drilling, including directional drilling, casing, coring and core retrieval, storage, downhole measurements, trouble-shooting, etc.  Preparation of tender documents and advise on tender floatation process as per Govt norms.
9	Visiting Fellow / Consultant (Geology)	Plan and assist in carrying out geological studies of core samples and cuttings with particular reference to structural aspects and earthquake related signatures, plan on-site geological logging of samples, sampling and other laboratory studies. Serve as a mentor for early-career scientific and technical staff.

More details on posts, qualifications, experience and nature of work along with link for ONLINE Application Form are available on NCS-MoES website page: <a href="https://seismo.gov.in/job\_post">https://seismo.gov.in/job\_post</a>

Online registration commencement date: 25.08.2021
Last date for submission of online applications: 09.09.2021
Last date for receipt of applications (hardcopy) at NCS: 09.09.2021

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