



**CSIR-NATIONAL GEOPHYSICAL RESEARCH INSTITUTE
UPPAL ROAD, HYDERABAD – 500 007**



Advertisement No. NGRI-3/2019/PA/Rectt. Dated 22.05.2019

The CSIR-NGRI, Hyderabad desires to fill up the following temporary positions of Project staff against various projects viz., Grant-in-Aid, Sponsored Projects, In-house projects etc.:

Post Code	Project Title / Number	Position	No. of positions	Essential Qualifications /& Experience	Desirable Qualifications /& Experience	Job requirement
1	Seismology - MLP-6401-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
2	Seismics - MLP-6402-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
3	Electrical Geophysics - MLP-6403-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
4	Electromagnetic Geophysics - MLP-6404-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
5	Geodesy, Gravity, Magnetics, Thermal Geophysics, Paleomagnetism and Rock Mechanics - MLP-6405-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
6	Geochemistry, Geochronology and Geology - MLP-6406-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
7	Earth Process Modeling - MLP-6407-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.

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8	Instrumentation - MLP-6408-28	Project Assistant Level-I	1	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
9	Testing & Analysis SSP-423-28	Project Assistant Level-I	2	B.Sc. with not less than 55% of marks	Knowledge in computer operation	Data collection, sorting, processing, file handling and allied activities.
10	Geodesy, Gravity, Magnetics, Thermal Geophysics, Paleomagnetism and Rock Mechanics MLP-6405-28	Project Assistant Level-I	1	B.Sc., B.C.A. with not less than 55% of marks	-----	Data collection, sorting, processing, file handling and allied activities.
11	CSIR Integrated Skills Development	Project Assistant Level-I	1	B.Sc., B.C.A. with not less than 55% of marks	-----	Data collection, sorting, processing, file handling and allied activities.
12	Comprehensive study of Geomagnetic pulsation GAP-793-28	Project Assistant Level-I	1	B.Sc in Physics / Maths with not less than 55% of marks	Knowledge in MS Office / MATLAB	Data sorting, Processing, File handling, Data acquisition.
13	Hydrogeological and Geophysical Investigations in the SIPCOT, Perundurai Industrial Area, Erode District, Tamil Nadu	Project Assistant Level-I	1	B.Sc (Maths, Physics, Chemistry) with not less than 55% of marks	Experience in field / lab work	To assist in field for Geophysical & Hydrogeological surveys, Lab processing of samples
14	Electrical Maintenance STS-9943-28	Project Assistant Level-I	1	Diploma in Electrical Engineering with not less than 55% of marks	Knowledge in computer operation	Electrical maintenance and allied activities.

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15	Low-altitude heliborne multi-sensor geophysical imaging of the near-surface for uranium exploration in different parts of India SSP-801-28	Project Assistant Level-II	2	B.E / B.Tech in ECE/E&I with not less than 55% of marks or Master's Degree (M.Sc.) in Electronics / Applied Electronics with not less than 55% of marks	Experience in the field of Analog & Digital circuit design, Instrumentation and Embedded systems programming	Maintenance, testing and calibration of geophysical instruments and to participate in heliborne geophysical surveys anywhere in India.
16	Data Centre and Knowledge Network STS-9909-28	Project Assistant Level-II	1	B.Tech (IT/CSE) with not less than 55% of marks	Experience in handling high-end pro AV equipment, VDI infrastructure, Servers, Databases	VDI implementation, Data Centre Monitoring, VDI infrastructure health monitoring, Bio-Metric Attendance Machines monitoring
17	Drone based Electromagnetic And Magnetic System (DREAM) HCP-0020-28	Project Assistant Level-III	1	B.Tech with Electronics / Communication / Instrumentation with not less than 55% of marks <i>plus</i> minimum 2 years experience and knowledge in design & development of analog / digital circuits / PCB / schematic designs	-----	Design, development of analog / digital circuits / PCB / schematic designs / Geophysical field work / maintenance etc.
18	Drone based Electromagnetic And Magnetic System (DREAM) HCP-0020-28	Project Assistant Level-II	1	Master's Degree in Physics with not less than 55% of marks	Experience in Electromagnetic Theory / Mathematical modelling and Simulations.	To carryout Theoretical / Mathematical modelling and Simulations of transient electromagnetic method (TEM) / EM Theory / Sensor design
19	Studies on Gas Hydrate Exploration & Technology Development for its Exploitation GAP-329-28	Project Assistant Level-II / III	1	<u>Project Assistant Level-II</u> Master's Degree in Physics with not less than 55% of marks <u>Project Assistant Level-III</u> Master's Degree in Physics with not less than 55% of marks <i>plus</i> 2 years post qualification experience	Experience in gas hydrate related experimental studies; Proven record by way of publications in relevant field	Synthetic Hydrates, Handling of low temperature and high pressure reactors. Experiments using Raman and XRD techniques, Data analysis skills using various software packages.

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20	Studies on Gas Hydrate Exploration & Technology Development for its Exploitation GAP-329-28	Project Assistant Level-II	1	Master's Degree in Physics [Chemistry as one of the subject at Graduation level] with not less than 55% of marks	Good experimental skills and exposure of solid state physics / material science	Synthetic Hydrates, Handling of low temperature and high pressure reactors. Experiments using Raman and XRD techniques. Data analysis skills using various software packages.
21	Safety and Security of Vital Installations HCP0017	Project Scientist (R-2) / Research Associate-I	2	<u>Project Scientist (R-2) / Research Associate-I</u> Ph.D in Geophysics	One year research experience in seismology after Ph.D	Seismological Field/data processing and interpretations
22	Crustal deformation and plate motion studies in intra and inter plate regions of India using GPS measurements GAP-806-28	Research Associate-II	1	Ph.D in Atmospheric Physics / Physics <i>plus</i> two years post-qualification experience.	GPS data acquisition / processing / Programming in MATLAB	Soil moisture extraction using GPS measurements.
23	Assessment of Regional Hydrological System using Space Borne Gravity Observation	Project Scientist (R-2) / Research Associate-I	1	<u>Project Scientist (R-2) / Research Associate-I</u> Ph.D in Applied Hydrology / Water Resources / Physics / Earth Sciences or equivalent	Working knowledge related to Hydrology / Water Resources / Estimation of major water fluxes / Aquifer Modelling / Impact of climate on water resources; Working experience on RS & GIS / Matlab in the field of Hydrology / Groundwater projects / Space borne hydrology	Hydrogeological data collection, analysis & interpretation, Development of coupled based model for estimating of major water fluxes in the climatic conditions.

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24	Development of bionanoremediation techniques for arsenic contamination in aquatic environments monitored by biogeophysical techniques GAP-807-28	Project Assistant Level-II	1	Master's Degree in Microbiology / Biotechnology / Biogeochemistry with not less than 55% of marks	Excellent communication skills in written and spoken English are compulsory	Microbiological analysis of samples associated with laboratory and field experiments.
25	Himalaya-Burma arc : modeling of seismicity and recognition of earthquake-prone areas CLP-804-28	Project Assistant Level-II	1	Master's Degree in Geophysics / Geology / Mathematics with not less than 55% of marks	Experience in programming (Fortran, C and Matlab) and script writing (Linux/Unix); One year experience in seismological data analysis and modeling	Analysis and modeling of large seismological data.
26	Assessment of Regional Hydrological System using Space Borne Gravity Observation	Project Assistant Level-II	1	Master's Degree in Geophysics / Physics with not less than 55% of marks	Knowledge of Space Geodesy (GPS/GRACE), GPS Data processing	GPS installation, processing and analysis of GRACE datasets.
27	Assessment of Regional Hydrological System using Space Borne Gravity Observation	Project Assistant Level-II	1	Master's Degree in Hydrology / Water Resources Engg. / Civil (with Hydrology) / Physics with not less than 55% of marks	Dissertation / Master Thesis on Hydrology / Water Resources / Aquifer Modelling will be preferred; Knowledge of RS&GIS/Matlab, Hydrology and water resources	To collect, process and analyse the data related to spatial hydrogeological data and aquifer modelling for the estimation groundwater balance at different scales.
28	Integrated Geological, Geochemical and Geophysical studies for the delineation of Chromitite extensions in Nuggihalli Schist Belt and Implication for Ni-Cu PGE Mineralization GAP-803-28	Project Assistant Level-II	1	M.Sc. Geology / M.Tech.(Mineral Exploration) with not less than 55% of marks	-----	Field work, data analysis, interpretation and mapping

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29	Shallow Seismics MLP-6402-28	Project Assistant Level-III	2	Master's Degree in Geophysics/Physics/Mathematics with not less than 55% of marks <i>plus</i> two years post qualification experience	Experience in seismic data processing	2D & 3D Seismic Data processing
30	Crustal deformation and plate motion studies in intra and inter plate regions of India using GPS measurements GAP-806-28	Project Assistant Level-II	2	Master's Degree in Geophysics/Physics with not less than 55% of marks	Programming in MATLAB / Fortran / C Language	GPS data acquisition and processing.
31	Mineralogical and geochemical characterization of Indian glauconites for alternative potassium fertilizers GAP-754-28	Project Assistant Level-II	1	Master's Degree in Geophysics / Geology with not less than 55% of marks	Extensive data acquisition and processing	Field data acquisition in hard terrain.
32	High resolution heliborne geophysical mapping for the proposed rail tunnel between Thalassery and Mysuru (GEO-MARUTH)	Project Assistant Level-II / III	3	<u>Project Assistant Level-II</u> Master's Degree in Geophysics with not less than 55% of marks <u>Project Assistant Level-III</u> Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> two years post qualification experience	-----	Geophysical (ground based electrical & EM, airborne EM & Magnetic) surveys, processing and interpretation; Hydrogeological studies; Report writing etc.
33	Synthesis of Earthquake Hazard Scenario in NW Himalaya by investigating the Multi-Scale variations in structural and seismotectonic Assemblages (SHIVA) MLP-0001-28-FBR-1	Project Assistant Level – III	1	Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> two years post qualification experience	Experience in geomagnetic time series, processing, both ground and satellite	Processing and analysis of geomagnetic time series data esp. pulsations
34	Geodynamics and Metallogeny of parts of the East Indian Shield with specific reference to Diamond, Iron Ore and Chromitite-PGE occurrences (GeoMet) MLP-0002-28-FBR-2	Project Assistant Level-II	1	Master's Degree in Geophysics with not less than 55% of marks	-----	GM data collection, processing, analysis & modeling

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35	Carrying out Ground Geophysical Surveys and to collect Gravity-Magnetic data in Central Region of Geological Survey of India SSP-798-28	Project Assistant Level-II	1	Master's Degree in Geophysics with not less than 55% of marks	-----	GM data collection, processing & modeling
36	Low-altitude heliborne multi-sensor geophysical imaging of the near-surface for uranium exploration in different parts of India SSP-801-28	Project Assistant Level-II/III	1	<u>Project Assistant Level-II</u> Master's Degree in Geophysics with not less than 55% of marks <u>Project Assistant Level-III</u> Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> two years post qualification experience	Working knowledge of Geosoft / Electromagnetic inversion	Air-borne Elettromagnetics / Magnetics, data processing and interpretation. Field survey anywhere in India.
37	Deformation across the Karakoram fault and Kaurik Chango rift and its implications on the NW Himalayan tectonics GAP-757-28	Project Assistant Level-II / III	1	<u>Project Assistant Level-II</u> Master's Degree in Geophysics with not less than 55% of marks <u>Project Assistant Level-III</u> Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> two years post qualification experience	-----	GPS Data acquisition and Processing
38	Drone based Electromagnetic And Magnetic System (DREAM) HCP-0020-28	Project Assistant Level-II	1	Master's Degree in Geophysics with not less than 55% of marks	Experience in Air-borne / land geophysical EM methods, theory, data acquisition, processing and interpretation using geophysical / modelling software packages	To carryout geophysical TEM field data acquisition, processing, interpretation.
39	Geodynamics and Metallogeny of parts of the East Indian Shield with specific reference to Diamond, Iron Ore and Chromitite-PGE occurrences (GeoMet) MLP-0002-28-FBR-2	Project Assistant Level-II	1	Master's Degree in Geophysics with not less than 55% of marks	Programming Skills	Data acquisition in and around Singhbhum Craton

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40	Marine Seismics MLP-6402-28	Research Associate-1 / Project Assistant Level-III	1	<u>Research Associate-1</u> Ph.D in Geophysics <u>Project Assistant Level-III</u> Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> 2 years post qualification experience.	2 publications; Minimum of 2 years experience in Marine seismic data interpretation	For integrated interpretation of marine seismic data.
41	Studies on Gas Hydrate Exploration & Technology Development for its Exploration GAP-329-28	Project Assistant Level-II / III	4	<u>Project Assistant Level-II</u> Master's Degree in Geophysics with not less than 55% of marks <u>Project Assistant Level-III</u> Master's Degree in Geophysics with not less than 55% of marks <i>plus</i> 2 years post qualification experience.	Marine Seismic data processing and modelling	Mapping of Gas hydrate from 2D/3D marine multichannel seismic data
42	Deformation across the Karakoram fault and Kaurik Chango rift and its implications on the NW Himalayan tectonics GAP-757-28	Project Assistant Level-II	1	Master's Degree in Geophysics with not less than 55% of marks	GPS data acquisition / processing	Field work, data processing, analysis
43	Mapping Geological structures in abandoned coal mines at Talcher in Mahanadi basin and Foot hills of Himalaya using Gravity and Airborne InSAR datasets GAP-788-28	Project Assistant Level-II	1	Masters' Degree in Geophysics with not less than 55% of marks	Knowledge of Gravity, Remote Sensing and GIS	Field data acquisition (Gravity, Magnetic), processing the field and satellite data sets (InSAR).

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44	Lithospheric Thermal Structure of the Singhbhum caraton from Heat flow heat production data and constraining upper mantle temperature from shear wave velocity	Project Assistant Level-II	2	Master's Degree in Geophysics with not less than 55% of marks	-----	Data acquisition, processing and analysis for Thermal Geophysics Group for determining heat flow, heat production and thermal structure Modeling mantle temperature from thermal data and constraining by shear wave velocity structure
45	Central Facilities and coordination of the project: Assessment of Regional Hydrological Systems using Space-Borne Gravity Observations	Project Assistant Level-II	2	Master's Degree in Geophysics / Applied Geophysics with not less than 55% of marks	Knowledge of Gravity, Hydrology and water resources will be required	GPS Station installation, data acquisition, processing and validation with satellite derived products.
46	Evaluation of anthropogenic pressures impact on hydrological process over the Indian subcontinent rivers using spaceborne gravity observations	Project Assistant Level-II	1	Master's Degree in Geophysics / Applied Geophysics with not less than 55% of marks	Knowledge of Gravity, Hydrology and Water resources	Hydrological modelling
47	Geochemical Flow Stratigraphy, Age and duration of Deccan Volcano-Sedimentary succession from Koyna Drill-Core Site GAP-771-28	Project Assistant Level-II	1	Master's Degree in Geology / Applied Geology with not less than 55% of marks	Basic knowledge of geochemistry with interest in geochemical modeling; Should have computational skills	Work in geochemical laboratory involving sample preparation, data acquisition, compilation and processing.

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48	Synthesis of Earthquake Hazard Scenario in NW Himalaya by investigating the Multi-Scale variations in structural and seismotectonic Assemblages (SHIVA) MLP-0001-28-FBR-1	Project Assistant Level-II	1	Master's Degree in Geology / Applied Geology with not less than 55% of marks	-----	Field work (in Himalayas) and sample analysis in Lab
49	Antiquity, assembly and tectonic evolution of Precambrian crust in the Dharwar craton, Southern India : a focus on zircon geochronology GAP-799-28	Project Assistant Level-II	3	Master's Degree in Geology with not less than 55% of marks	NET / GATE qualified, Precambrian Geology / Applied Geology	To carryout zircon geochronology related to the evolution of the Dharwar craton and its adjacent southern granulite terrains / To carryout zircon geochronology related to the Proterozoic basins adjacent to the Dharwar craton such as Cuddaph, Kaladgi, Badami and Bhima basins.
50	Geochemical constrains on evolution history of calc-silicate rocks from the north and central parts of Southern granulite terrane, India GAP-808-28 (TY)	Project Assistant Level-II	1	Master's Degree in Geology / Applied Geology with not less than 55% of marks	Knowledge in Geological mapping and geochemical analysis rocks	To carryout geological field work, laboratory work and geochemical data interpretation

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51	Hydrogeological and Geophysical Investigations in the SIPCOT, Perundurai Industrial Area, Erode District, Tamil Nadu	Project Assistant Level-II	1	Master's Degree in Applied Geophysics / Geology with not less than 55% of marks	Experience in Geophysical (Electrical Method) & Hydrogeological surveys	To carry out Geophysical field surveys and data processing
52	Hydrogeological and Geophysical Investigations in the SIPCOT, Perundurai Industrial Area, Erode District, Tamil Nadu	Project Assistant Level-II	1	Master's Degree in Geology / Applied Geochemistry with not less than 55% of marks	Experience in Geophysical (Electrical Method) & Hydrogeological surveys	To carry out Geohydrological field surveys and water quality analysis in laboratory

Note: In respect of the Post Codes against which Project Assistant Level-II/III, Project Scientist (R-1)/(R-2)/Research Associate-I/II have been notified in the advertisement, based on the performance of the candidate in the interview and on the recommendations of the Committee, the Director has discretion to award any of the level/position notified subject to fulfilling the essential qualification and age etc.

Upper age limit (as on date of Interview) & Stipend details:

Level	Stipend (Rs./- p.m.)	Upper age limit (in years)
Project Assistant Level – I	15,000	28
Project Assistant Level – II	25,000	30
Project Assistant Level – III	28,000	35
Research Associate-I	36,000	35
Research Associate-II	38,000	35
Project Scientist (R-1)	48200/50600/53000/55400/57800	Below 40
Project Scientist (R-2)	56100/58900/61700/64500/67300	Below 40

Terms & Conditions:

1. Age relaxation: 5 years in case of SC/ST/OBC/PWD and Women candidates.
2. Date & Time of Interview: 13th & 14th June, 2019 from 09:00 AM onwards.
3. Registration: Candidates appearing for Interview against the above Post Codes are required to register on-line (For details, please visit CSIR-NGRI website). **The online registration will open at 10.00 a.m. on 25.05.2019 and will close at 06:00 p.m. on 06.06.2019.**

4. If the number of candidates registered online for Interview is very high, then the Candidates will be shortlisted by a screening committee based on academic qualification and /or experience and/or by holding written test. In case of short listing is done by Screening Committee, then the committee will adopt its own criteria. **The list of candidates shortlisted by committee will be displayed on CSIR-NGRI website on 11.06.2019 and they are required to appear for Interview on 13th & 14th June, 2019.** No separate call letters/admit cards will be issued for attending Interview. In case of written test, the same will be held on 13.06.2019. The candidates are advised to plan their itinerary and arrange own accommodation in such a way that they should be able to be present for interview during the very next day of the scheduled dates of interview also, in case need arises for so.
5. The shortlisted candidates may appear for Interview along with originals and one set of photocopies of Certificates of educational qualification, age, caste (in case of SC/ST/OBC candidates), one recent passport size photo etc. on the date(s) and time as mentioned above at CSIR-National Geophysical Research Institute, Uppal Road, Hyderabad–500007.
6. The number and levels of positions may increase or decrease at the time of actual selection. The engagement is for various time-bound projects viz., Grant-in-Aid, Sponsored Projects, In-house projects etc. which is co-terminus with the projects and may be extended or curtailed depending on the duration of the Project, satisfactory performance/conduct of the appointee. It is not a regular appointment, temporary or otherwise and therefore it does not entitle the incumbent(s) any claim, implicit or explicit on any CSIR/NGRI post. No TA/DA will be paid for attending the interview.

Sd/-
Administrative Officer