



**CSIR-NATIONAL ENVIRONMENTAL ENGINEERING
RESEARCH INSTITUTE**

(An ISO 9001:2008 certified organization)
(Council of Scientific & Industrial Research)

NEHRU MARG, NAGPUR – 440 020

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Advt.No.2/2012

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National Environmental Engineering Research Institute (NEERI) established in 1958 with its headquarters at Nagpur and at present having five Zonal Laboratories across the country, is one of the constituent units of the Council of Scientific & Industrial Research (CSIR), a premier multidisciplinary R&D organization in India which is an autonomous body of the Department of Scientific & Industrial Research under the aegis of the Ministry of Science & Technology, Government of India. The Institute is engaged in Research & Development in the areas of Environmental Monitoring, Environmental Biotechnology, Hazardous Waste Management, Environmental System Design Modeling & Optimization, Environmental Impact & Risk Assessment, and Environmental Policy Analysis. The Institute is looking for talented young professionals with brilliant academic record and zeal for innovative research. Applications are invited in the prescribed form from Indian Nationals for the following positions of Scientific & Technical category. Selected candidates will be required to conduct Research & Development activities, work as a member of project team(s) in their respective disciplines/areas:

| Sl. No | Particulars of the post | No. of Post(s) | Pay Band & Grade Pay | Total emoluments* approximately | Upper Age Limit |
|--------|--|----------------|--------------------------------------|---------------------------------|-----------------|
| 1 | Scientist [Group IV(2)] (Backlog) | 16 | PB-3, Rs.15600-39100 + GP Rs.6600 | Rs.52178/- | 35 Years |
| 2 | Sr. Technical Officer (1) [Group III(4)] (Current) | 02 | PB-3, Rs.15600-39100 + GP Rs.5400 | Rs.44130/- | 35 Years |
| 3 | Technical Assistant [Group III(1)] (Current) | 04 | PB-2, Rs.9300-34800 + GP Rs.4200 | Rs.23457/- | 28 Years |

* Total emoluments shown are at the minimum of the Pay in the Pay Band plus Grade Pay inclusive of Dearness Allowance (DA), House Rent Allowance (HRA), Transport Allowance (TA) with DA on TA as admissible to the Central Government employees stationed in Nagpur and as made applicable to CSIR. Council accommodation will be allotted as per priority list/availability of accommodation on payment of prescribed license fee/water charges/electricity charges in which case HRA will not be admissible.

- In addition to the emoluments indicated above, other benefits such as New Pension Scheme based on defined contribution, Leave Travel Concession, Reimbursement of Medical Expenses, Conveyance/House Building Advance, etc. are admissible as per CSIR rules.
- They are also eligible for time bound attractive career advancement under Assessment Schemes of CSIR.
- Besides the above, Scientists are also entitled for a Special Pay of two additional increments and Professional Update Allowance.

Reservation position: Reservations of posts for SC/ST/OBC & PWD are indicated against their respective post codes.

The minimum qualifications, experience, etc. for these posts are as under:

[A] Scientist Group IV(2) : 16 Posts

**(1) Post Code No. 201 – Environmental Engineering/Environmental Management
(3 posts) - UR-1, SC-1, OBC-1**

Essential Qualification: M.E./M.Tech. in Environmental Engineering/Environmental Management with 2 years post ME/M.Tech. research/field experience in the area of Environment Monitoring, Modeling and Pollution Control **OR** M.E./M.Tech in Environmental Engineering with Ph.D. in related discipline. **Desirable:** 1. First Class at Graduate in engineering and/or Post Graduate level 2. Publications in SCI journal. **Job Requirement:** Environment Modeling, R&D in innovative technologies for pollution preventions and pollution control. Demonstration of technologies in the field.

(2) Post Code No. 202 - Chemical Engineering (1 Post) - UR

Essential Qualification: M.E./M.Tech. in Chemical Engineering with 2 years post M.E./M.Tech. research/field experience in the area of Solid & Hazardous Wastes Management **OR** M.E./M.Tech. in Chemical Engineering with Ph.D. in related discipline. **Desirable:** 1. First Class at Graduate in engineering and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** Assessment of Solid & Hazardous Waste. 2. Treatment/Management of Solid and Hazardous Wastes. 3. Development of new methodologies for Solid & Hazardous Waste Management with recourse to Waste Minimization, recovery & recycle.

(3) Post Code No. 203 – Chemical Engineering (1 Post) - UR

Essential Qualification: M.E./M.Tech in Chemical Engineering with 2 years post M.E./M.Tech research/field experience in the area of Environmental Impact & Risk Assessment. **OR** M.E./M.Tech. in Chemical Engineering with Ph.D. in related discipline. **Desirable :** 1. First Class at Graduate in engineering and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Evaluation of Industrial processes for risks. Risk Assessment including hazop & fault tree analysis using modern tools/software. 3. Development of new methodologies for EIRA.

(4) Post Code No. 204 – Chemical Engineering (1 Post) -OBC

Essential Qualification: M.E./M.Tech. in Chemical Engineering with 2 years post M.E./M.Tech. research/field experience in the area of Material development & catalysis. **OR** M.E./M.Tech. in Chemical Engineering with Ph.D. in related discipline. **Desirable:** 1. First Class at Graduate in engineering and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Development of processes for synthesis of noble materials including nano materials for environmental applications. 2. Development & evaluation of catalytic processes. 3. Scale up of the processes for environmental applications.

(5) Post Code No. 205 – Chemical Engineering (1 Post) – OBC

Essential Qualification : M.E./M.Tech. in Chemical Engineering with 2 years post M.E./M.Tech. research/field experience in the area of water resources, ground water modeling and land application for waste treatment. **OR** M.E./M.Tech. in Chemical Engineering with Ph.D. in related discipline. **Desirable:** 1. First Class at Graduate in engineering and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Assessment of water resources modeling using advanced tools and software. 2. Development of new technologies for water resources and wastewater management.

(6) Post Code No. 206 – Electronics/Instrumentation/Physics (1 Post) - OBC

Essential Qualification : M.E./M.Tech. in Electronics/Instrumentation with 2 years post M.E./M.Tech. research/field experience as per job requirement **OR** M.E./M.Tech. in Electronics/Instrumentation with Ph.D. in related discipline. **OR** M.Sc. in Physics/Electronics with Ph.D. in related discipline with 1 year post Ph.D. experience as per job requirement. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** R&D in the field of air toxics monitoring, testing, operation and maintenance of sophisticated environmental instruments, data analysis, etc.

(7) Post Code No. 207 - Chemistry (1 Post) - OBC

Essential Qualification : M.Sc. in Chemistry with Ph.D. in related discipline with 1 year post Ph.D. research/field experience in the area of environmental analysis, both laboratory and instrumental analysis, environmental assessment and environmental management. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** To carry out analysis conventional and project specific pollutants using state-of-the-art analytical and instrumental methods to meet the requirement at national & international level. 2. Data collection and data interpretation using modern tools and software. 3. Development of new and innovative analytical tools for environment monitoring with specific emphasis on QA/QC.

(8) Post Code No. 209 – Botany (2 Posts) – UR-1, OBC-1

Essential Qualification: M.Sc. in Botany with Ph.D. in related discipline with 1 year post Ph. D. research/field experience in the area of ecological survey, plant biodiversity, eco-restoration. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Monitoring and analysis of environmental samples for biological parameters. 2. Ecological and biodiversity assessment. 3. Eco-restoration of natural system.

(9) Post Code No. 210 - Zoology (2 Posts) – UR-1, SC-1

Essential Qualification: M.Sc. in Zoology with Ph.D. in related discipline with 1 year post Ph.D. research/field experience in the area of biodiversity studies, aquatic and terrestrial ecology, EIA and other related fields. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Monitoring and analysis of environmental samples for zoological parameters. 2. Ecological survey, aquatic, terrestrial and marine ecology. 3. Development of new methodologies for identification and evaluation of zoo-planktons, aquatic, terrestrial and marine eco-system.

(10) Post Code No. 211 – Environmental Science (1 Post) – SC

Essential Qualification: M.Sc. in Environmental Science with Ph.D. in related discipline with 1 year post Ph.D. research/field experience in the area of Bio-remediation, bio-degradation, environment monitoring and management, EIA. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Environment monitoring, EIA, water resource management, water quality management. 2. Bio-degradation/Bio-remediation of pollutants and contaminants. 3. Development of new methodologies for environmental restoration using modern tools and techniques.

(11) Post Code No.212 – Meteorology/Atmospheric Science (1 Post) – UR

Essential Qualification: M.Sc. in Meteorology/Atmospheric Science with Ph.D. in related discipline with one year post Ph.D. relevant experience. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI Journals. **Job Requirement:** 1. R&D in the field of atmospheric science. 2. Operation and maintenance of meteorological instruments. 3. Data interpretation and analysis.

(12) Post Code No. 213 – Bio-chemistry/Microbiology/Biotechnology (1 Post) –UR

Essential Qualification: M.Sc. in Bio-chemistry/Microbiology/Biotechnology/Genetics/Molecular Biology/Environmental Toxicology/Pharmacy/Agriculture with Ph.D. in related discipline with 1 year post Ph.D. experience. **Desirable:** 1. First Class at Graduate and/or Post Graduate level. 2. Publications in SCI journals. **Job Requirement:** 1. Analysis and development of environmental samples for microbial/toxicological/genetic parameters. 2. Microbial population dynamics, DNA Sequencing. 3. EIA/Waste water treatment. 4. Application of genomics in microbial and human population and handling of data such as sequencing, micro-array, proteomics, genomics and bioimaging & biosensor development. 5. Development of Microbial consortia for specific remedial targets. 6. Bio-statistics. 7. Development of new methodologies using modern molecular biological tools/methods for environmental applications. 8. Phyto remediation in Environmental applications. 9. Recovery and reuse of agriculture residues bio-prospecting etc.

[B] Sr. Technical Officer(1) {Goup III(4)} - 02 Post

(1) Post Code No. 301 – Civil Engineering (2 Posts) – UR-1, OBC-1

Essential Qualification: B.E./B.Tech. or equivalent in Civil Engineering with 55% marks with two years experience. **Desirable:** Pre and post contractual management of residential building works/Institutional building works/Road works. Should be conversant with the computer. **Job Requirement:** The incumbent will be required to prepared estimates tender documents, day to day supervision, prepare bills and handling of contractual matters.

[C] Technical Assistant {Goup III(1)} - 04 Posts

(1) Post Code No. 302 – Geophysics (1 Post) - OBC

Essential Qualification: M.Sc./M.Sc. Tech. in Geophysics/Applied Geophysics/Geology/Chemistry/Microbiology. **Desirable:** 1. First class at graduate and post graduate level and possessing higher qualifications. 2. Proven track record of research experience. 3. 2-3 years experience in R&D activities. **Job Requirement:** 1. Field work related to geophysical investigations. 2. Assist in geo hydrological and geo electrical investigations. 3. Working and maintenance knowledge in various sophisticated geophysical instruments. 4. R&D in the field of design and development of technologies implementable in the field for solving water quality problems in rural areas with respect to fluoride, arsenic and other health related pollutants, water quality monitoring and surveillance, instrumentation in water quality monitoring, water quality management with reference to microbial quality of water, monitoring of microbiological parameter in water/sewage/greywater and hands-on experience on use of instrumentation for monitoring of microbiological parameters in water/sewage/grewater.

(2) Post Code No. 303 – Computer Science (1 Post) - UR

Essential Qualification: First Class B.Sc. (Computer Science/Information Science) or Dip. in Computer Engg./Information Tech. of 3 years full time duration or its equivalent after 10+2 in Science with Physics, Chemistry, Maths/B.Sc. (Sci.) with one year full time professional qualification in the relevant discipline from a recognized Institute/organization) **Desirable:** 1. M.Sc./MCA in Computer applications. Knowledge of PHP, Apache, ASP, VB, Oracle, MYSQL. 2. Experience in AutoCAD drawings, Remote Sensing and GIS. **Job Requirement:** 1. Attending day to day networking & computer related complaints & assists in system administration & email, website upgradation & development. 3. Preparation of thematic layers, assist in various layers, assist in various project activities. 4. Data handling, analysis, mapping in GIS database handling.

(3) Post Code No. 304 – Environmental Science (1 Post) - OBC

Essential Qualification: First Class B.Sc. (Science) with one year experience (full time) from a recognized Institute/Organization in Environmental Monitoring/Analysis. **Desirable:** M.Sc. or B.Sc. (Science) 1st class or minimum 60% with minimum one experience in Environmental monitoring and analysis. **Job Requirement:** Environmental monitoring including field survey and analysis related to EIA projects.

(4) Post Code No. 305 – Journalism (1 Post) - UR

Essential Qualification: First Class B.Sc. with diploma in journalism. **Desirable:** 1. Knowledge of scientific/technical writing/editing in English, Hindi and Marathi in the area of environmental science & engineering. 2. Knowledge of database development and computer applications. **Job Requirement:** Writing and editing of news items, reports etc. related to environmental science & engineering for newsletters, annual reports etc. editing of research/review articles, peer evaluation, publishing of scientific journals and database development on various environmental variables.

IMPORTANT NOTE: 1. The date for determining the age limit/experience/ qualifications shall be the last date fixed for receipt of completed application forms. 2. **Relaxations:** Age Limit – Age should not exceed the upper limit prescribed for each category of post. Following relaxations are, however, admissible. (I) The upper age limit is relaxable by five years for members belonging to the Scheduled Caste/Scheduled Tribe and three years for Other Backward Class in respect of the posts reserved for them. (SC/ST/OBC candidates who apply against the posts not reserved for them are not eligible for age relaxation in respect of such posts and they are treated as general candidates). The Scheduled Caste/Scheduled Tribe/OBC candidates applying for the post reserved for them should necessarily enclose a certificate in the prescribed forms issued by the competent authorities empowered to sign such certificates in support of their caste/community status. For OBC candidates, the certificate issuing authority should also certify that the candidate does not belong to Creamy Layer Section/Category. (II) Relaxation in upper age limit upto five years may be allowed to Council/Government/Autonomous Bodies/Public Sector employees in accordance with the instructions and orders issued by the CSIR/Government of India from time to time in this regard. This relaxation is admissible to such of the Council / Government / Autonomous Bodies / Public Sector employees as are working in posts which are in the same line or allied cadres and where a relationship could be established that the service already rendered in a particular post will be useful for the efficient discharge of the duties of the post(s) recruitment to which has been advertised. The decision in this regard will rest with the Director, NEERI. (III) Relaxation in the upper age limit will be admissible to the residents of the State of Jammu & Kashmir in accordance with the “Residents of the State of Jammu & Kashmir (Relaxation of Upper Age Limit for Recruitment to Central Civil Services and Posts) Rules, 1997” and amendments made thereto. It is upto five years to those who had ordinarily been domiciled in the Kashmir Division of the State of

Jammu & Kashmir during the period from 1.1.1980 to 31.12.1989, subject to production of relevant certificate to this effect from the District Magistrate in the Kashmir Division within whose jurisdiction he/she had ordinarily resided or from any other authority designated in this behalf by the Government of Jammu & Kashmir. (IV) Relaxation in age limit, qualification and/or experience may be permitted by the DG, CSIR if the Director of the Laboratory based on the recommendation of Screening Committee is of the opinion that sufficient number of candidates possessing the requisite qualifications and/or experience are not likely to be available to fill up the posts. (V) Relaxation in the qualification and/or experience prescribed may be allowed at the discretion of the DG, CSIR in the case of candidates belonging to Scheduled Castes/Scheduled Tribes/OBC against posts reserved in favour of SC/ST/OBC communities. 3. The required minimum essential qualification should be from the recognized universities/Institutes/Institutions. The decision of NEERI/CSIR with regard to equivalence of qualifications and about recognition of universities or institutes/institutions shall be final and binding on all the candidates. 4. The essential experience wherever prescribed is part and parcel of the essential qualification and it should be in the relevant area of work/field indicated against such posts and the period of such experience shall be counted with effect from the date of acquiring the prescribed minimum educational qualification required for that post. 5. Higher initial pay may be considered for exceptionally meritorious and deserving candidates.

GENERAL CONDITIONS: 1. Only Indian Nationals need apply. 2. The application has to be submitted only in the prescribed application form to be downloaded from NEERI's website: www.neeri.res.in or The application form(s) should reach(es) the Institute on or before the closing date of receipt of completed applications which is **15.05.2012**. 3. The application fee is of Rs.100/- (Rupees One hundred only) which should be remitted along with the completed application form in the form of valid Demand Draft. 4. In case the candidate is desirous of applying for more than one post code, application for each post code should be submitted separately along with the separate application fee of Rs.100/- indicating clearly the Advertisement No., Name of Post (Code No.____) on the top of the envelop containing the application. Single application form for more than one post code will be rejected. 5. NEERI reserves the right not to fill up any or all the posts. The number of vacancies is provisional and may vary depending on the requirement of the Institute. 6. Only outstation candidates (within India) called for interview will be paid to & fro single second class rail fare including reservation, on through ticket basis/ordinary bus fare by the shortest route from the place of their residence or from the actual place of undertaking the journey, whichever is nearer to the place of interview, as per rules. 7. The selected candidates are liable to be posted in any of the establishments under the administrative control of NEERI Headquartered at Nagpur including its Zonal Laboratories situated at Delhi, Mumbai, Chennai, Kolkata & Hyderabad, as and when required. 8. Applications from employees of Government Departments, Public Sector Undertakings, Autonomous Bodies and Govt. funded research organizations will be considered only if forwarded through proper channel and with a clear certificate of employer that there is no vigilance case pending/being contemplated against him/her and that the applicant will be relieved within one month of the receipt of the appointment orders; if selected. However, advance copy of the application along with the requisite fee may be submitted before the closing date. Applications routed through proper channel should reach this Institute within prescribed time. 9. Applications received complete in all respects will be scrutinized by a duly constituted Screening Committee. Only those candidates who are recommended by the Screening Committee will be called for interview. Mere fulfilling minimum prescribed qualifications(s) and experience will not vest any right in a candidate for being called for interview. Since it may not be possible to call all the candidates for interview, the applications will be short listed for purpose on the basis of qualifications and experience, by a duly constituted Screening Committee. The candidates should, therefore, mention all the qualifications and experience in the relevant field over and above the minimum requirements prescribed. Such details should be full and accurate. The criteria adopted by the Screening Committee and approved by the competent authority shall be final and binding on the candidates. 10. The decision of the NEERI/CSIR in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, and conduct of interview will be final and binding on the candidates. The Institute will not entertain any enquiries/correspondence in this regard from any

individual or agency on his/her behalf. **11.** In the case of posts reserved for Scheduled Caste/Scheduled Tribes & Other Backward Classes, a lower standard of suitability consistent with efficiency in administration will be applied. **12.** Applicants must disclose as to whether any of their blood or close relatives is working in NEERI//CSIR or in any other National Laboratories/Institutes of CSIR in the application form at appropriate place. **13.** The application forms duly filled in the prescribed application forms and complete in all respects accompanied by attested copies of all mark sheets, certificates, testimonials in support of date of birth/age, educational qualifications, experience, caste/community as mentioned in the application together with non-refundable **application fee of Rs.100/- (Rupees one hundred only)** per application in the form of crossed **Demand Draft** drawn in favour of “**Director, NEERI**” and payable at the **State Bank of India, NEERI Branch (Branch Code No.04224), Nagpur**, should be sent to **the Director, NEERI, Nagpur** at the above address in an envelop duly superscribed as “**Application for the post of _____ (Post Code No. _____)**” so as to reach **on or before 15.05.2012.** Candidates belonging to SC/ST category/community, Persons with Disabilities and regular employees of CSIR are exempted from payment of application fee. They should, however, attach an attested copy of caste/community/PWD category certificate as proof. The Demand Draft if not on SBI, Nagpur, it may be from any other Nationalized Bank only payable at Nagpur. **14.** Application incomplete in any respect i.e. not in the prescribed form of NEERI, not filled up properly, without Demand Draft for application fee, photograph, signature and without enclosures (i.e. attested copies of certificates/mark-sheets of educational qualifications, date of birth, experience, caste/community, etc.) or incomplete in any manner will be summarily rejected. Enclosures received separately subsequent to the receipt of the application will not be entertained. Further applications received after the due date will also be summarily rejected. The Institute will not be responsible for any postal delays. **15.** Canvassing in any form and/or bringing in any influence, political or otherwise, will be treated as a disqualification for the post(s). **16.** The Director, NEERI reserves the right to cancel the advertisement without assigning any reason therefor. **17.** Notification regarding recommendations of the screening committee along with the criteria adopted will be displayed on our website: www.neeri.res.in

INTERIM ENQUIRIES SHALL NOT BE ATTENDED TO.

Controller of Administration/NEERI