



IT'S NOT JUST ABOUT IDEAS IT'S ABOUT MAKING IDEAS HAPPEN DO IT!

NTPC is looking for **Research-Oriented Professionals** on **Fixed Term basis** as per details given below:

Advt. No.- 16/22

NTPC Limited is India's largest integrated power company with installed capacity of 69,134 MW and has presence in the entire value chain of the power generation business. Commensurate with our country's growth challenges, NTPC has embarked upon an ambitious plan to attain a total installed capacity of 130 GW by 2032.

NTPC is looking for **research oriented professionals on Fixed Term basis** as per details mentioned below:

Post No. : A

SN	Item Description	Details
1	Name of Post	Executive (Carbon Capture & Utilization) – 05 Posts (UR-4, OBC-1)
2	Required Qualification	1. PhD in area related to Carbon Capture /Utilization from reputed University/Institute OR 2. ME / M.Tech in Mechanical / Electrical / Energy / C&I / Environment with at least 60 % marks from Recognized University/Institute AND Minimum 5 years of post-qualification experience in the relevant field OR 3. B.E. / B.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute AND Minimum 7 years of post-qualification experience in the relevant field
3	Required Experience Profile	Experience is required in Carbon Capture / Utilization: 1. Understanding of process and assessment of its technical and commercial feasibility. 2. Process Design and Engineering, Preparation of technical specification, Project Management 3. Erection & Commission / Quality assurance / Operation & Maintenance of process plant 4. Safety
4	Upper Age Limit	45 Years

Post No. : B

SN	Item Description	Details
1	Name of Post	Executive (Hydrogen) – 04 Posts (UR-3, OBC-1)
2	Required Qualification	1. PhD in area related to Hydrogen generation process from reputed University / Institute OR 2. M.E. / M.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute AND Minimum 5 years of post-qualification experience in the relevant field OR 3. B.E. / B.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute AND Minimum 7 years of post-qualification experience in the relevant field
3	Required Experience Profile	Experience is required in Generation of Hydrogen through electrolytic process and utilize it for Hydrogen Economy: 1. Understanding of process and assessment of its technical and commercial feasibility. 2. Process Design and Engineering, Preparation of technical specification, Project Management 3. Erection & Commission / Quality assurance / Operation & Maintenance of process plant 4. Safety
4	Upper Age Limit	45 Years

Post No. : C

SN	Item Description	Details
1	Name of Post	Executive (Waste to Energy) – 01 Post (UR-1)
2	Required Qualification	1. PhD in area related to Biomass process from reputed University /Institute OR 2. M.E./M.Tech in Mechanical with at least 60 % marks from Recognized University/Institute AND Minimum 5 years of post-qualification experience in the relevant field OR 3. B.E. / B.Tech in Mechanical with at least 60 % marks from Recognized University / Institute AND Minimum 7 years of post-qualification experience in the relevant field
3	Required Experience Profile	Experience is required in Generation of electricity through Municipal solid waste / Blending of biomass with coal for firing in Boiler: 1. Understanding of process and assessment of its technical and commercial feasibility. 2. Process Design and Engineering, Preparation of technical specification, Project Management 3. Erection & Commission / Quality assurance / Operation & Maintenance of process plant 4. Safety
4	Upper Age Limit	45 Years

Post No. : D

SN	Item Description	Details
1	Name of Post	Executive (Civil Design) – 01 Post (UR-1)
2	Required Qualification	1. M Tech / ME Civil with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 5 years in detailed process engineering of civil system of Plants such as Fertilizers, Chemicals, Petrochemicals, Refinery, Specialty Chemicals, Oil & Gas, power Projects, Off-Sites and Utility facilities etc. AND Proficiency in structural design softwares e.g., STAAD-Pro / STAAD Foundation. Working knowledge of 3D modeling & detailing softwares e.g., AUTOCAD etc. and Conversant with Indian as well as international design codes and standards viz. IS, BS/EUROCODE, ASCE and ACI OR 2. B Tech / BE Civil with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 7 years in detailed process engineering of civil system of Plants such as Fertilizers, Chemicals, Petrochemicals, Refinery, Specialty Chemicals, Oil & Gas, power Projects, Off-Sites and Utility facilities etc. AND Proficiency in structural design softwares e.g., STAAD-Pro/ STAAD Foundation. Working knowledge of 3D modeling & detailing softwares e.g., AUTOCAD etc. and Conversant with Indian as well as international design codes and standards viz. IS, BS/EUROCODE, ASCE and ACI
3	Required Experience Profile	Experience required in Civil works including: 1. Development of Civil design and specification for various Projects. 2. Design, engineering, erection, commissioning, testing, Quality, inspections etc. in an R&D environment 3. Major activities of Detail engineering includes: • Analysis and design of industrial structures covering steel as well as RCC structures related to industries like hydrocarbon, refineries, petrochemicals & fertilizers, power etc. • Design calculations, checking of general arrangement & fabrication drawings for steel & RCC. • Maintenance of office / plant premises • Need to have soft skills to work in multifunctional team and good communication skills
4	Upper Age Limit	45 Years

Post No. : E

SN	Item Description	Details
1	Name of Post	Executive (Infrastructure) – 01 Post (UR-1)
2	Required Qualification	1. M Tech / ME Civil with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 2 years in infra management in any plant, office, institute etc. OR 2. B Tech / BE Civil with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 4 years in infra management in any plant, office, institute etc.
3	Required Experience Profile	Experience required in Civil works including: 1. Maintenance of office, plant, plant premises Need to have soft skills to work in multifunctional team and good communication skills
4	Upper Age Limit	35 Years

Post No. : F

SN	Item Description	Details
1	Name of Post	Executive (Program Office) – 01 Post (UR-1)
2	Required Qualification	MBA in Marketing / Operations with at least 60% marks from Recognized University / Institute AND Minimum 5 Years of post-qualification experience in relevant field
3	Required Experience Profile	Experience required in following: 1. Market Survey, Commercialization and Business development of scientific Services and Technology Projects 2. Internal business process of Program Office i.e., Budget, Internal & external MOUs, MIS, Interface with external agencies / departments
4	Upper Age Limit	35 Years

Post No. : G

SN	Item Description	Details
1	Name of Post	Executive (Ash Technologies) – 02 Posts (UR-2)
2	Required Qualification	<p>1. PhD in any area of Mechanical / Civil / Electrical in field related 'Bulk Ash handling system' from Recognized University / Institute OR</p> <p>2. ME / M.Tech in Mechanical / Civil / Electrical in field related 'Bulk Ash handling system' with at least 60 % marks from Recognized University / Institute AND Minimum 05 years of post-qualification research / industrial experience in the Design of Ash / Material handling system. Added experience of erection & commissioning of aforesaid system shall be preferable. OR</p> <p>3. BE / B Tech in Mechanical / Civil / Electrical with at least 60% marks from Recognized University / Institute AND Minimum 07 years' post-qualification research / industrial experience in the Design of Ash / Material handling system. Added experience of erection & commissioning of aforesaid system shall be preferable Desirable: Knowledge of Geopolymer technology, Fly Ash Lime Gypsum (FALG), Development of cementitious material from thermal power plant ash, Development of products / Technologies from thermal power plant ash. Applicant should have research experience in development of fly ash, bottom ash & pond ash- based technologies / processes / products</p>
3	Required Experience Profile	<p>Experience required in following:</p> <ol style="list-style-type: none"> 1. Development of Bulk Ash Utilization technologies / products for fly ash, bottom ash & pond ash of coal-based power plant 2. Understanding of process and assessment of its technical and commercial feasibility. 3. Process Design and Engineering, Preparation of technical specification, Project Management 4. Erection & Commission / Quality assurance / Operation & Maintenance of process plant 5. Ensuring Safety 6. Commercialization of the developed products / Technologies
4	Upper Age Limit	45 Years

Post No. : H

SN	Item Description	Details
1	Name of Post	Executive (Non-Destructive Evaluation) – 02 Posts (UR-2)
2	Required Qualification	<p>1. Ph.D. in Mechanical / Metallurgical / Electrical from Recognized University / Institute AND (a) Personnel Certification in NDT (PCN) Level-2 in Phased Array Ultrasonic Testing (PAUT) OR ISNT / ICN / ASNT certified NDE Level-2 in Ultrasonic Testing with Level 2 training in PAUT as per requirements of respective certification body (b) NDT Level 2 in Magnetic Particle Inspection (MPI) as per ISNT/ICN/ASNT OR</p> <p>2. M. Tech / M.E. in Mechanical / Metallurgical / Electrical with atleast 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 3 years in health & life assessment of power plant components in field using NDE methods. Experience with in-situ metallography will be preferable. AND (a) Personnel Certification in NDT (PCN) Level-2 in Phased Array Ultrasonic Testing (PAUT) OR ISNT / ICN / ASNT certified NDE Level-2 in Ultrasonic Testing with Level 2 training in PAUT as per requirements of respective certification body (b) NDT Level 2 in Magnetic Particle Inspection (MPI) as per ISNT / ICN / ASNT OR</p> <p>3. B. Tech / B.E. in Mechanical / Metallurgical / Electrical or MSc. in Physics with atleast 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 5 years in health & life assessment of power plant components in field using NDE methods. Experience with in-situ metallography will be preferable. AND (a) Personnel Certification in NDT (PCN) Level-2 in Phased Array Ultrasonic Testing (PAUT) OR ISNT / ICN / ASNT certified NDE Level-2 in Ultrasonic Testing with Level 2 training in PAUT as per requirements of respective certification body NDT Level 2 in Magnetic Particle Inspection (MPI) as per ISNT / ICN / ASNT Desirable Apart from above NDT certifications, NDT Level 2 in ECT & PT Methods</p>

3	Required Experience Profile	<p>Following experience is required:</p> <ol style="list-style-type: none"> 1. Development and performing Non-destructive Evaluation tests of various power plant components in view of residual life assessment. 2. Coordination with Site 3. Material Handling, Job Preparation, Testing, analysis, and Report Preparation & Recommendations Lab Equipment Maintenance and Inventory Management
4	Upper Age Limit	45 Years

Post No. : I

SN	Item Description	Details
1	Name of Post	Executive (Analytical Chemistry) – 04 Posts (UR-3, OBC-1)
2	Required Qualification	<p>1. Ph.D in Chemistry from Recognized University / Institute AND Strong laboratory analytical skills in handling sophisticated instruments for water, resin, deposit, coal and oil related testing, like Spectrophotometer / Microwave Digester / Ion Chromatograph, Atomic Absorption Spectrophotometer & ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT OR</p> <p>2. M.Tech. in Chemistry with atleast 60% marks from Recognized University / Institute AND Minimum 5 years of post-qualification experience with strong laboratory analytical skills in handling sophisticated instruments for water, resin, deposit, coal and oil related testing, like Spectrophotometer / Microwave Digester / Ion Chromatograph, Atomic Absorption Spectrophotometer & ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT OR</p> <p>3. M.Sc in (Industrial Chemistry/Applied Chemistry / Analytical Chemistry) with at least 60% marks from Recognized University / Institute AND Minimum 7 years of post-qualification experience with strong laboratory analytical skills like in handling sophisticated instruments for water, resin, deposit, coal and oil related testing, like Spectrophotometer / Microwave Digester / Ion Chromatograph, Atomic Absorption Spectrophotometer & ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT</p>
3	Required Experience Profile	<p>Experience in following is required:</p> <ol style="list-style-type: none"> 1. Analytical Lab (water, effluent, trace / heavy metal analysis) 2. Resin Health & Life Assessment 3. Basic & advanced coal / biomass fuel characterization; Boiler water tubes deposit analysis 4. Transformer & lube oil analysis 5. Environmental testing including BOD, COD & ambient air quality monitoring
4	Upper Age Limit	45 Years

Post No. : J

SN	Item Description	Details
1	Name of Post	Executive (Metallurgy) – 02 Posts (UR-2)
2	Required Qualification	<p>1. Ph.D in the field of Metallurgy / Microstructural characterization / Mechanical characterization / Heat treatment / Welding technology / Modelling of structure of metals / alloy structure / super alloy / advanced power plant materials etc. OR</p> <p>2. M.Tech in Metallurgy / Material Science with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 5 years in the field of metallurgy / microstructural analysis / mechanical property correlation study / failure analysis. Preference will be given who is having exposure in the power plant metallurgy or in the relevant field given in job description OR</p> <p>3. BE / B.Tech / MSc in Metallurgy / Material Science with at least 60% marks from Recognized University / Institute AND Minimum post-qualification experience of 7 years in the field of metallurgy / microstructural analysis / mechanical property correlation study / failure analysis. Preference will be given who is having exposure in the power plant metallurgy or in the relevant field given in job description</p>
3	Required Experience Profile	<p>Experience in following is required:</p> <ol style="list-style-type: none"> 1. Failure analysis and condition assessment of various power plant components. 2. Coordination with Site for failure and operational data 3. Sample (complex geometry / failures) handling, knowledge of sectioning, sample preparation for microstructural analysis, Microstructural examination, Micro hardness analysis, SEM- EDAX analysis, Chemical Analysis and Report Preparation & Recommendations 4. Room temperature and high temperature mechanical testing – Tensile, creep, and creep fatigue. 5. Lab Equipment Maintenance and Inventory Management
4	Upper Age Limit	45 Years

Remuneration:

For post no. A, B, C, D, G, H, I, J, monthly Consolidated amount of Rs. 125,000/-

For post no. E & F, monthly consolidated amount of Rs. 100,000/-

Additionally, HRA, retention benefit and medical facility for self, spouse and two children.

Tenure of Engagement: Initial appointment will be for a period of 03 years (extendable upto further 02 years based on performance and requirement).

Vacancied for PwBD Category as per Govt. Guideline.

Identified type of disabilities for the post of Executive (Carbon Capture & Utilization): a) D, HH b) OA,OL,Dw, AAV c) SLD, MI, d) MD involving (a) to (c), **Executive (Hydrogen):** a) D, HH b) OA,OL,Dw, AAV c) SLD, MI, d) MD involving (a) to (c), **Executive (Waste to Energy):** a) D, HH b) OA,OL,Dw, AAV c) SLD, MI d) MD involving (a) to (c), **Executive (Civil Design):** a) D, HH b) OA,OL,LC,Dw, AAV c) SLD, MI d) MD involving (a) to (c), **Executive (Infrastructure):** D, HH b) OA,OL,LC,Dw, AAV c) SLD, MI d) MD involving (a) to (c), **Executive (Program Office):** a) B, LV b) D, HH c) OA, BA, OL,BL, OAL,BLOA, BLA,LC, Dw, AAV d) MD involving (a) to (c), **Executive (Ash Technologies):** a) D, HH b) OA,OL,Dw, AAV c) SLD, MI, d) MD involving (a) to (c), **Executive (Non-Destructive Evaluation):** a) D, HH b) OA,OL,Dw, AAV c) SLD, MI, d) MD involving (a) to (c), **Executive (Analytical Chemistry):** a) HH b) OA, OL, BL,OAL,LC, Dw, AAV c) SLD, MI d) MD involving (a) to (c), **Executive (Metallurgy):** D, HH b) OA,OL,Dw, AAV c) SLD, MI, d) MD involving (a) to (c).

The total number of projected vacancies indicated above may increase / decrease at the discretion of NTPC management.

HEALTH

The candidate should have sound health. Before joining, candidates will have to undergo medical examination at any of the NTPC hospitals and the decision will be final and binding. No relaxation in health standards is allowed. Detailed medical norms are available on the website careers.ntpc.co.in

GENERAL CONDITIONS:

1. Only Indian Nationals are eligible to apply.
2. All qualifications should be from Universities / Institutions recognized and approved in India. Where there is vacancy identified for such category, SC, ST and PwBD candidates with pass marks in qualifying examination are eligible to apply for the post.
3. All computations of age / experience requirement / qualification shall be done w.r.t. the last date of receipt of online application as mentioned in the advertisement.
4. Candidates claiming to belong to any particular category shall necessarily have a valid EWS/OBC/SC /ST/ Disability certificate, as the case may be from the Competent Authority. Where there is vacancy identified for such category, upper age limit is relaxed by 5 years for SC/ST candidates, by 3 years for OBC candidates, by 10 years for PwBD candidates. 5 years age relaxation for candidates who had ordinarily been domiciled in the State of Jammu & Kashmir during the period 01.01.80 to 31.12.89. Relaxation of age to Ex-Serviceman as per Govt. guidelines.
5. In order to restrict the number of candidates to be called for an interview, if so required, the Management reserves the right to conduct online screening / shortlisting / selection test or to raise the minimum eligibility standards / criteria, as per requirement.
6. Depending on the requirement, the Company reserves the right to cancel / restrict / curtail / enlarge the number of vacancies, if need so arises, without any further notice and without assigning any reason thereof.
7. Posting shall be at any of the Stations / Projects / JVs / Subsidiaries of NTPC. All posts are transferable at the sole discretion of the Management.
8. While applying for the post, the applicant should ensure that he / she fulfills the eligibility and other norms mentioned above, as on the specified dates and that the particulars furnished are correct in all respects. In case it is detected at any stage of recruitment that a candidate does not fulfill the eligibility norms and / or that he / she has furnished any incorrect / false information or has suppressed any material fact(s), his/her candidature will stand automatically cancelled. If any of the above shortcoming(s) is / are detected even after appointment his / her services are liable to be terminated without any notice. Canvassing in any form shall disqualify the candidate.
9. The mere fact that a candidate has submitted application against the advertisement and apparently fulfilling the criteria as prescribed in the advertisement would not bestow on him/her the right to be definitely called for interview / considered further for selection process.
10. Any proceedings in respect of any matter of claim or dispute arising out of this advertisement and / or an application in response thereto can be instituted only in Delhi and courts / tribunals / forums at Delhi only shall have sole and exclusive jurisdiction to try any such cause / dispute.
11. In case any ambiguity/dispute arises on account of interpretation in versions other than English, the English Version will prevail.

HOW TO APPLY

Interested candidates should log on to our website careers.ntpc.co.in or visit careers section at www.ntpc.co.in for applying. No other means / mode of application shall be accepted. Candidates are required to possess a valid email ID. NTPC will not be responsible for bouncing back of any email sent to the candidates. Candidate belonging to General/EWS/OBC category are required to pay a non-refundable registration fee of Rs. 300/-. The SC/ST/PwBD/XSM category & female candidates need not pay the registration fee.

Payment in offline mode: State Bank of India has been authorized to collect the registration fee, in a specially opened account (**A/C No. 30987919993**) at CAG branch, New Delhi (Code: 09996), on behalf of NTPC. Candidate has to approach the nearby SBI branch with a printout of the "pay-in-slip" which is available on the application registration portal. The pay-in-slip printed from the portal should only be used for depositing the fee for proper crediting of amount in the allocated account. On receipt of the money, the bank will issue a unique Journal Number and a Branch Code of the bank collecting the money. This journal number and the branch code are to be filled up by the candidate during online registration. NTPC will not be responsible, in case a candidate deposits the fee in wrong account.

Payment in online mode: Candidates also have the option to pay the fees online (through Net banking / Debit Card (Rupay debit cards Only) / Credit Card). The online payment option will be available in the online application form.

Fee once paid will not be refunded under any circumstances. Candidates are therefore requested to verify their eligibility criteria before paying the registration fee. After applying online, candidate is required to download the registration slip generated by the system with unique registration number. Copy of registration slip may be retained by the candidate for future reference. No document is required to be sent to us by post.

It is mandatory that eligible candidates go through the full text of the advertisement and agree to all the conditions given, while applying for the post. Any further addendum / corrigendum / updates will only be published on our website.

Commencement of online application: 29.07.2022

Last date for online application: 12.08.2022



NTPC Limited
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Leading the Power Sector

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