



**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	<b>Executive (Carbon Capture &amp; Utilization) – 05 Posts (UR-4, OBC-1)</b>
2	Required Qualification	1. PhD in area related to Carbon Capture /Utilization from reputed University/Institute <b>OR</b> 2. ME / M.Tech in Mechanical / Electrical / Energy / C&I / Environment with at least 60 % marks from Recognized University/Institute <b>AND</b> Minimum 5 years of post-qualification experience in the relevant field <b>OR</b> 3. B.E. / B.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute <b>AND</b> 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	<b>Executive (Hydrogen) – 04 Posts (UR-3, OBC-1)</b>
2	Required Qualification	1. PhD in area related to Hydrogen generation process from reputed University / Institute <b>OR</b> 2. M.E. / M.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute <b>AND</b> Minimum 5 years of post-qualification experience in the relevant field <b>OR</b> 3. B.E. / B.Tech in Mechanical / Electrical / C&I with at least 60% marks from Recognized University / Institute <b>AND</b> 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	<b>Executive (Waste to Energy) – 01 Post (UR-1)</b>
2	Required	1. PhD in area related to Biomass process from reputed

**Post No. : D**

SN	Item Description	Details
1	Name of Post	<b>Executive (Civil Design) – 01 Post (UR-1)</b>
2	Required Qualification	1. M Tech / ME Civil with at least 60% marks from reputed University / Institute <b>AND</b> Minimum post-qualification experience in detailed process engineering of such as Fertilizers, Chemicals, Petrochemicals, Specialty Chemicals, Oil & Gas, power plants and Utility facilities etc. <b>AND</b> Proficiency in structural design software like AutoCAD / Pro / STAAD Foundation. Working knowledge of modeling & detailing softwares e.g. AutoCAD, Revit etc. Conversant with Indian as well as international codes and standards viz. IS, BS/Euro, ASME, ACI <b>OR</b> 2. B Tech / BE Civil with at least 60% marks from reputed University / Institute <b>AND</b> Minimum post-qualification experience in detailed process engineering of such as Fertilizers, Chemicals, Petrochemicals, Specialty Chemicals, Oil & Gas, power plants and Utility facilities etc. <b>AND</b> Proficiency in structural design software like AutoCAD / Pro / STAAD Foundation. Working knowledge of modeling & detailing softwares e.g. AutoCAD, Revit etc. Conversant with Indian as well as international codes and standards viz. IS, BS/Euro, ASME, ACI
3	Required Experience Profile	Experience required in Civil works 1. Development of Civil design for various Projects. 2. Design, engineering, erection, commissioning, Quality, inspections etc. in an organization. 3. Major activities of Detail engineering <ul style="list-style-type: none"> <li>Analysis and design of steel covering steel as well as concrete related to industries like hydrocarbons, petrochemicals &amp; fertilizers</li> <li>Design calculations, detailing, arrangement &amp; fabrication of RCC.</li> <li>Maintenance of office / plant</li> <li>Need to have soft skills to work in a team and good communication skills</li> </ul>
4	Upper Age Limit	45 Years

**Post No. : E**

SN	Item Description	Details
1	Name of Post	<b>Executive (Infrastructure) – 01 Post (UR-1)</b>
2	Required Qualification	1. M Tech / ME Civil with at least 60% marks from reputed University / Institute <b>AND</b> Minimum post-qualification experience in detailed process engineering management in any plant, office, industrial etc. <b>OR</b> 2. B Tech / BE Civil with at least 60% marks from reputed University / Institute <b>AND</b> Minimum post-qualification experience in detailed process engineering management in any plant, office, industrial etc.

**Post No. : G**

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

**Post No. : H**

SN	Item Description	Details
1	<b>Name of Post</b>	<b>Executive (Non-Destructive Evaluation) – 02 Posts (UR-2)</b>
2	<b>Required Qualification</b>	<p>1. Ph.D. in Mechanical / Metallurgical / Electrical from Recognized University / Institute</p> <p><b>AND</b></p> <p>(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</p> <p>(b) NDT Level 2 in Magnetic Particle Inspection (MPI) as per ISNT/ICN/ASNT</p> <p><b>OR</b></p> <p>2. M. Tech / M.E. in Mechanical / Metallurgical / Electrical with atleast 60% marks from Recognized University / Institute</p> <p><b>AND</b></p> <p>Minimum post-qualification experience of 3 years in health &amp; life assessment of power plant components in field using NDE methods. Experience with in-situ metallography will be preferable.</p> <p><b>AND</b></p> <p>(a) Personnel Certification in NDT (PCN) Level-2 in</p>

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

**Post No. : I**

SN	Item Description	Details
1	<b>Name of Post</b>	<b>Executive (Analytical Chemistry) – 02 Posts (UR-2)</b>
2	<b>Required Qualification</b>	<p>1. Ph.D in Chemistry from Recognized University / Institute</p> <p><b>AND</b></p> <p>Strong laboratory analytical skills in using sophisticated instruments for water, resin, deposit analysis testing, like Spectrophotometer / Micro Analyzer / Chromatograph, Atomic Absorption Spectrometry &amp; ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT</p> <p><b>OR</b></p> <p>2. M.Tech. in Chemistry with atleast 60% marks from Recognized University / Institute</p> <p><b>AND</b></p> <p>Minimum 5 years of post-qualification research / industrial experience with strong laboratory analytical skills in using sophisticated instruments for water, resin, deposit analysis testing, like Spectrophotometer / Micro Analyzer / Chromatograph, Atomic Absorption Spectrometry &amp; ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT</p> <p><b>OR</b></p> <p>3. M.Sc in (Industrial Chemistry/ Analytical Chemistry) with at least 60% marks from Recognized University / Institute</p> <p><b>AND</b></p> <p>Minimum 7 years of post-qualification research / industrial experience with strong laboratory analytical skills in using sophisticated instruments for water, resin, deposit analysis testing, like Spectrophotometer / Micro Analyzer / Chromatograph, Atomic Absorption Spectrometry &amp; ICP / ICP-MS / DGA / Automatic bomb calorimeter / RPVOT</p>

3	<b>Required Experience Profile</b>	<p>Experience in following is required:</p> <ol style="list-style-type: none"> <li>1. Analytical Lab (water, effluent, trace metals)</li> <li>2. Resin Health &amp; Life Assessment</li> <li>3. Basic &amp; advanced coal / biomass analysis</li> <li>4. Boiler water tubes deposit analysis</li> <li>5. Transformer &amp; lube oil analysis</li> <li>6. Environmental testing including BCOP, SO<sub>2</sub> &amp; NO<sub>x</sub> quality monitoring</li> </ol>
4	<b>Upper Age Limit</b>	45 Years

**Post No. : J**

SN	Item Description	Details
1	<b>Name of Post</b>	<b>Executive (Metallurgy) – 02 Posts (UR-2)</b>
2	<b>Required Qualification</b>	<p>1. Ph.D in the field of Metallurgy / Material Science / Mechanical characterization / Mechanical behavior / Heat treatment / Welding technology / Corrosion / Properties of metals / alloy structure / super alloys / plant materials etc.</p> <p><b>OR</b></p> <p>2. M.Tech in Metallurgy / Material Science with atleast 60% marks from Recognized University / Institute</p> <p><b>AND</b></p> <p>Minimum post-qualification experience of 3 years in the field of metallurgy / microstructural analysis / property correlation study / failure analysis</p>

## 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](http://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](http://careers.ntpc.co.in) or visit careers section at [www.ntpc.co.in](http://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