



## **RECRUITMENT OF EXPERIENCED R&D PROFESSIONALS FOR CRDC, NOIDA**

### ***Bharat Petroleum Corporation Limited (BPCL)***

BPCL is a Fortune 500, leading Navratna Public Sector Company in the exciting and dynamic energy sector engaged in Refining, Marketing and Distribution of Petroleum products and in exploration of Oil / Gas. BPCL group achieved a Gross Revenue of Rs. 2,58,731.09 cr from Operations for the year 2014-15.

As one of India's largest corporations, BPCL offers you a lifetime of personal and professional development. With BPCL, you have the opportunity to flourish, explore your strengths and gain the experience to move ahead.

At BPCL, we believe in providing not only a job with competitive salary but also in taking efforts to go the extra mile to provide an experience called life! A combination of unmatched benefits and opportunities for personal development & the prospects is provided at BPCL to hone your talent.

### ***About CRDC***

BPCL set up state-of-the-art Corporate R&D Centre (CRDC) at Greater Noida (near Delhi) in July'2001 to support business growth. CRDC is one of the leading R&D centers in the country and recognized by the Dept. of Scientific & Industrial Research (DSIR), Govt. of India. CRDC has illuminated paths to engender breakthrough innovations in a complex and resource-scarce industry. The R&D Centre is actively involved in supporting corporate business through constant advanced technical support and novel product / process technology development in niche areas leading to new business development.

Some of the key research areas include advanced characterization and evaluation of crude oils, catalyst development for oil refining/petrochemical processes, eco-friendly lubricants, process simulation and modeling, efficient separation processes, novel reactors, corrosion and fouling, bitumen, residue upgradation, petrochemicals/polymers, alternative fuels/energy, biofuels, hydrogen, DME, solar photovoltaic etc.



## Recruitment of experienced R&D professionals

We are looking for dynamic, committed and experienced R&D professionals who can rapidly assimilate our business processes and are interested in taking up challenging assignments in their respective fields.

## Qualification & Relevant Experience

Candidates should possess the required qualifications and relevant post-qualification work experience in the respective areas as mentioned below. Only those candidates who fulfil the eligibility criteria and possess relevant experience would be considered for the selection process.

S. No	Area of Research	Qualification	Relevant Experience *
1	Polymer Chemistry	M.Sc. Ph.D in Polymer Chemistry	Experience in Development & commercialization of hydro gels /olefinic polymers, polymer characterization using spectroscopic, NMR & GPC techniques etc Synthesis Knowledge in free radical / solution/suspension/Ziegler-Natta catalyst based polymerization techniques
2	Bio technology (Two Profiles)	a) Ph.D in Molecular Biology b) Ph.D in Microbiology / Molecular Biology / Biotechnology	a) Experience in metabolic engineering / synthetic biology, cloning, RT-PCR for various genes, recombination of genes, expression and quantification of genes, protein expression for strain improvement. b) Experience in the area of Biofuels/ Chemicals
3	Advance Materials	Ph.D in Organic Chemistry	Experience with green chemistry background and proven record of publications
4	Corrosion and Fouling	M.Sc, Ph.D in Organic Chemistry	Experience in the area of corrosion/metallurgical studies related to Petroleum/Petrochemical processes, pipeline corrosion, heat exchangers, tanks, Columns etc
5	Energy Systems	B. Tech (Electrical) with M. Tech in Electrical Engineering /Energy Systems/ Electrochemistry Engg.	Experience in Hydrogen and fuel cell operation and testing; battery technologies, Li Ion Chemistry. In addition Experience in Simulators / models such as ASPEN PLUS, CFD software would be preferred.



S. No	Area of Research	Qualification	Relevant Experience *
6	Hydro processing	M.Tech/Ph.D Chemical Engineering	Experience in the area of hydro processing, reforming, syn-gas to chemicals / fuels
7	Process Intensification	M.Tech/PhD Chemical Engineering	Process intensification studies, advanced reactor/separation system design for efficient process development
8	Fluid Catalytic Cracking	M.Tech, Chemical Engineering	Experience in Fluidization techniques, FCC cold flow/pilot plant design / operation/ trouble shooting techniques, knowledge in steam and metal deactivation, knowledge/experience with analytical instruments.
9	Computational Fluid Dynamics	M.Tech/Ph.D Chemical Engineering	Experience in computational fluid dynamics, process / reactor simulation, modeling, Process Integration, energy optimization
10	Separation processes	M.Tech / Chemical Engineering	Experience in separations / extraction, membrane technology, divided wall column, catalytic distillation units etc.
11	Mechanical / Thermal Engineering	M.Tech/Ph.D. in Mechanical Engineering with specialization in IC engines / Thermal Engineering	Experience in IC Engine combustion, performance & emissions, its fuel systems along with analytical skills for mathematical simulation using CFD, numerical methods etc. Should be able to integrate and develop strategies to evaluate performance of conventional fuels, alternate fuels, blends.
12	Eco friendly process	M.Tech/Ph.D.in Chemical Engineering	Experience in Reaction engineering and process development, Kinetic studies, Reactor design and simulation modeling, PFD engineering, Data analysis
13	Alternate Fuel	M.Tech in Chemical Engineering	Experience in handling different natures of alternate energy related projects like bio mass, Biofuels, Algae, characterization of different non edible oils, hydrolysis, saponification, purification processes, pre-treatment of oil. Gasification of biomass to yield electricity or synthetic gas etc.
14	Catalysis	Ph.D in Chemistry	Research experience in the area of catalysis or reaction engineering related to Petroleum/Petrochemical processes.



**\*Minimum required experience for all these positions is two years as on 01.10.2015 and Research work carried out during Ph. D will not be considered as experience and only post-qualification experience will be considered for computation of years of experience.**

- Educational Qualifications from Institutions/colleges and Universities/Deemed Universities should be duly recognized by AICTE/UGC.
- Candidates should have pursued and completed full-time regular course in the first attempt.
- Candidates scoring minimum 60% in the Final Degree Examination (Relaxed to 50% to SC/ST/PWD category candidates) only are eligible to apply. Percentage of marks would be the aggregate of all semesters irrespective of the norms / system being followed in the institute/university.
- Wherever CGPA/OGPA or Letter Grade in a degree is awarded, equivalent percentage of marks should be indicated in the online application (as per norms adopted by the University/Institute). Rounding off percentage is not allowed.
- **Ph D candidates are required to submit a synopsis / summary of their Research Work (not exceeding 500 words) while submitting the online application form.**

### **SELECTION METHODOLOGY:**

After scrutiny of applications and resumes, shortlisted candidates will be called for a written test and / or Case study-based group discussions and personal interview/s. Candidates short-listed in personal interview/s will be required to undergo a medical examination. The final selection / Offer of Employment depends upon the candidate's performance in the Personal Interview and medical fitness as determined by BPCL-designated Physicians and is also subject to fulfillment of other eligibility criteria as applicable.

Candidates would have to qualify through each stage of the selection process before being considered for final selection.





Please note that participation in the various stages of recruitment i.e. Written Test and / or Group Discussion, Personal Interview, psychometric or any other tests, pre-employment medical examination etc. does not confer any right to an individual for employment with BPCL.

### **TRAINING & PLACEMENT:**

The appropriate pay scale and job group for the right candidates will be decided by the panel after due assessment of profile suitability and performance in the selection process.

Selected candidates would normally be on Probation for one year (Extendable in case of unsatisfactory performance) and on successful completion of the probationary period, would be confirmed in the respective business unit / entity.

Candidates may initially be posted at our R&D centre, Noida. However, their services are transferable and they may be posted across the country in any of the businesses / locations or offices including joint ventures & subsidiary companies of BPCL currently in existence and any establishments that may be set up in the future, besides roles on deputation to other organizations.

### **MEDICAL STANDARDS:**

- Candidates provisionally selected by BPCL will have to undergo a Pre-Employment Medical Examination before joining the Corporation. The Company's Authorized Medical Officers/ nominated hospitals will assess the health of candidates and the final appointment of the Candidates will be subject to meeting the medical standards prescribed by the Company.

**Candidates selected under the PWD category must be within the prescribed normal range for all other physical standards except the handicap for which the relaxation is acceptable.**

- The decision on medical fitness by the Company's Authorized Medical Officers/nominated hospitals would be final and binding on all candidates. No correspondence or queries in this regard shall be entertained by BPCL.



- Myopia & Hypermetropia (vision), if any, should be within permissible limits i.e. (-) 6.00 & (+) 4.00. (Not applicable for VH candidates)
- Colour blindness or squint, partial or full, is not acceptable in any case. (Not applicable for VH candidates)
- Any major medical ailment will debar a candidate from being eligible for the job.
- The mentioned medical standards are only indicative and not exhaustive.
- Details can be accessed through the following website [www.oisd.gov.in](http://www.oisd.gov.in). (Please refer to Section 10 of OISD Standard 166).

### **RELAXATIONS:**

Reservations and Relaxations will be given as per the Presidential Directives.

### **HOW TO APPLY:**

Interested & eligible candidates may apply online from **16<sup>th</sup> September** to **7<sup>th</sup> October 2015** at [www.bpclcareers.com](http://www.bpclcareers.com) under Current Openings.

For any clarification, please contact us at [z\\_hrd\\_co\\_recruit@bharatpetroleum.in](mailto:z_hrd_co_recruit@bharatpetroleum.in)

### **General Instructions**

1. Only Indian Nationals are eligible to apply.
2. Candidates must have an active e-mail id, which must remain valid for at least the next one year. All future communication with the candidates will take place through e-mail only.
3. Candidates should have relevant documents like percentage of marks obtained in the degree examination, degree certificate, date of birth, caste/disability certificate (as applicable), e-mail id etc. readily available with them before they commence the ONLINE application process. This information would be required at the time of filling in the ONLINE application.



4. Candidates presently employed in Central/ State Government, Autonomous bodies and PSUs must submit a 'No Objection Certificate' from their employer at the time of GD / PI, failing which they will not be allowed to appear for the selection process.
5. Candidates not found to be meeting the prescribed eligibility criteria would be rejected at any stage of the selection process.
6. BPCL reserves the right to cancel / restrict / enlarge / modify / alter the recruitment process, if the need so arises, without issuing any further notice or assigning any reason thereafter.
7. Court of jurisdiction for any dispute will be at Mumbai.
8. While applying for the above post, candidate must ensure that he/she fulfils the eligibility and other norms mentioned above, as on the specified dates and the particulars furnished are correct in all respects. In case it is detected at any stage of recruitment / selection that the candidate does not fulfil 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 automatically stand 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, as the appointment would be deemed to be void ab initio.
9. If any candidate attempts to use external influence for facilitating his/her selection, it would result in automatic cancellation of his/her candidature.

*All the details given in the online application will be treated as final and no changes will be entertained.*

#### **Important dates:**

Commencement of on-line Applications	16 <sup>th</sup> Sep' 2015
Last date for submission of on-line Applications	7 <sup>th</sup> Oct' 2015