



## CSIR- INDIAN INSTITUTE OF PETROLEUM

(COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH)

P.O. I.I.P., MOHKAMPUR, HARIDWAR ROAD

DEHRADUN – 248005 (UTTARAKHAND)



Creating  
Future  
Fuels

### Advertisement No. 05/2020

Date of Commencement of online Application: 09.11.2020

Last Date for Receipt of online application: 08.12.2020

Last date of receipt of Hard Copy of Application Form: 15.12.2020 (5:30 PM)

### A unique opportunity for research careers in Science & Technology

CSIR-Indian Institute of Petroleum, Dehradun, a premier Institute under the Council of Scientific and Industrial Research (CSIR), is involved in multidisciplinary R&D programmes of both basic and applied nature across scientific disciplines for economic, environmental and societal benefits for the people of India. CSIR-IIP has a rich legacy of being a pioneer in the area of Petroleum & Hydrocarbon industry and is presently engaged in the development of sophisticated green technologies to cater to the energy needs of modern world and for reducing carbon footprint.

CSIR-IIP has developed and transferred technologies to industries in the area of petroleum refining, natural gas, petrochemicals, chemicals and utilisation of petroleum products, provided technical services and imparted world class training to the human resource of Oil and Refining industry. CSIR-IIP has strong collaborations with industries and academia in India & abroad and has outstanding scientists working in the multidisciplinary areas of R&D in the hydrocarbon and related industry.

Applications are invited from enthusiastic, young Indian researchers having excellent academic record and proven scientific achievements along with requisite experience and a high degree of motivation and desire to take up research as a career in the field of **Analytical Sciences, Corrosion, Chemical Conversion, Aromatic Extraction, Combustion, Light Stock Processing, Automotive Fuel & Lubricant Applications, Distillate & Heavy Oil Processing, Biofuels, Adsorption & Membrane, Petroleum Upstream & Wax Rheology and Material Resource Efficiency** as per the details given below:

Designation	No. of Posts with reservation	Entry Pay	Emoluments (in Rs.)	**Upper Age Limit not exceeding (as on last date)
Scientist	09 (UR-04, SC-01, ST-01, OBC-02, EWS-01)	Pay Level-11 (67700-208700)	94,253/-	32 Years
Principal Scientist	03 (UR)	Pay Level- 13 (123100-215900)	1,67,935/-	45 Years

UR-Unreserved, SC-Scheduled Caste, ST-Scheduled Tribe, OBC-Other Backward Classes, EWS-Economic Weaker Sections

\* Total Emoluments means approximate total emoluments as on 01.07.2020 on minimum of pay including House Rent Allowance in Class 'Y' City and other allowances.

\*\* Please see age relaxation under Relaxation column.

Post Code/Area /No. of Positions & Reservation	Pay Scale	Post & Maximum Age limit (as on last date of online application)	Essential Educational Qualifications & Experience	Desirable Experience	Job Requirement
<b>ASD-1</b> <b>Area: Analytical Sciences</b>  01 Post (OBC)	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry/Analytical Chemistry	Experience in the use of Fourier transform infrared spectroscopy (FTIR), Raman spectroscopy, hyphenated techniques such as GC-FTIR, TG-FTIR and Ultraviolet (UV-VIS) spectroscopy. The candidate is expected to be well versed with the analytical methods, data analysis and interpretation related to these techniques. Knowledge of the analytical applications, method development, instrumentation aspects and petroleomics in contemporary research with high quality and impact factor publications.	To carry out independent research in the area of organic characterisation and petroleum analysis with FTIR including ATR, Fiber –optic probe and microscope for functional group identification. Analysis of organic compounds including petroleum through UV-VIS involving standard analytical methods of ASTM, IP etc.
<b>COR-1</b> <b>Area: Corrosion</b>  01 Post (UR)	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry	Research experience in Corrosion Area. Experience of working in the corrosion of industrial and refinery problems will be an added advantage with publication in leading international journals	To undertake research and development projects related to oil and gas industries. The incumbent will be expected to formulate/conceive/initiate own research projects while interfacing with petroleum industry and R&D groups working in this institute.
<b>CCA-1</b> <b>Area: Chemical Conversion</b>  01 Post (SC)	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry	Having 2-3 years research experience in organic synthesis from Biomaterials/ Natural Products with special emphasis on knowledge of designing of experiments, etc. Well versed with analytical techniques like GC, HPLC, NMR, etc.	Multifunctional additives for fuels and lubricants. The incumbent will be expected to formulate/conceive/initiate own research projects while interfacing with Petroleum industry and R&D groups working in this institute.
<b>ARE-1</b> <b>Area: Aromatic Extraction</b>  01 Post (ST))	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry/Chemical Sciences	Two or more years of experience in the field of Solvent Extraction. Experience of handling analytical instruments like GC, UV, XRF, etc.	To carry out cutting edge R&D in the area of Solvent extraction. The candidate is expected to conceive new ideas and initiate new research projects in the area of solvent extraction, extractive distillation. Capability of scientific writing such as research papers, scientific reports and patents etc is also expected from the candidate

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Post Code/Area /No. of Positions & Reservation	Pay Scale	Post & Maximum Age limit (as on last date of online application)	Essential Educational Qualifications & Experience	Desirable Experience	Job Requirement
<b>COM-1</b> <b>Area: Combustion</b>  01 Post (UR)	Pay level -11 (Rs. 67700- 208700)	Scientist (32 Years)	M.E./M.Tech. in Mechanical Engineering/Thermal Engineering/Design/ Production/Combustion/ Automotive Engg. <b>OR</b> Ph.D. (Submitted) in Mechanical Engineering	The candidates having experience in Technology Innovation, Applied Technology, and Translational Research in the areas of Combustion, Flames, Heat and Mass transfer, Heat Exchangers, etc. will be given preference.	To carry out R&D in the area of Industrial and Domestic Combustion
<b>Post Code: LSP-1</b> <b>Area: Light Stock Processing (Reforming)</b>  01 Post (UR)	Pay level -11 (Rs. 67700- 208700)	Scientist (32 Years)	M.E./M.Tech. in Chemical Engineering/ Petroleum Engineering/ Petrochemical Engineering/Oil & Fats Engineering) <b>OR</b> Ph.D. (Submitted) in Chemical Engineering/ Petroleum Engineering/ Petrochemical Engineering/Oil & Fats Engineering	Experience in the area of catalyst development/hydrocarbon conversion processes. Hands on experience in handling Micro reactor/Bench Scale Units for various industrially important reactions/ processes.	Expected to formulate/ conceive/ initiate own research projects while interacting with oil and chemical industry.
<b>Post Code - AFLAD-1</b> <b>Area: Automotive Fuels &amp; Lubricants</b>  01 Post (OBC)	Pay level -11 (Rs. 67700- 208700)	Scientist (32 Years)	M.E./M.Tech. in Electrical & Electronics Engineering (EEE)/ Electrical Engineering/ Electronics & Communication Engineering (ECE)	Experience and knowledge in Power Electronics, Electrical Machines, Motor Drive System, Electric vehicle sub-systems, driving cycles and MATLAB/Simulink Software or similar simulation software for electric vehicle applications. Preference will be given to those who have working experience in Electric Vehicles, related motor drive systems, EV energy efficiency and simulation software like MATLAB/Simulink.	The candidate is expected to work in Electrical Vehicle area, its drivetrain study, performance evaluation, energy efficiency and Renewable Energy field. In addition, the incumbent may be assigned any relevant jobs from time to time as per the directive of the Competent Authority.

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Post Code/Area /No. of Positions & Reservation	Pay Scale	Post & Maximum Age limit (as on last date of online application)	Essential Educational Qualifications & Experience	Desirable Experience	Job Requirement
<b>Post Code: HOP-1</b> <b>Area: Distillate &amp; Heavy Oil Processing</b> 01 Post (EWS)	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry/Chemical Sciences	Proven track record in synthesis and characterization of Zeolite based DCC/FCC catalysts.	To undertake research projects for the development of DCC/FCC catalysts for opportunistic feeds.
<b>Post Code: BFD-1</b> <b>Area: Bio Fuels</b> 01 Post (UR)	Pay level –11 (Rs. 67700-208700)	Scientist (32 Years)	Ph.D. (Submitted) in Chemistry/Chemical Sciences	Research experience in heterogeneous catalyst designing, synthesis and characterization; should have understanding of the reaction mechanisms, kinetics and thermodynamics; relationship between structure and catalytic activity as evidenced from publications; should have strong fundamental knowledge in heterogeneous catalysis related to biomass conversion and bio fuels production	To carry out cutting edge R&D in the area of processes related to biomass conversion and bio fuels production. The work would involve process development, development of new catalysts/materials, their characterization, catalytic evaluation, data analysis and mechanistic studies. The incumbent is expected to conceive and execute own research projects in this area and related area.
<b>Post Code: AMA-1</b> <b>Area: Adsorption &amp; Membrane</b> 01 Post (UR)	Pay level – 13 (Rs. 123100-215900)	Principal Scientist (45 Years)	Ph.D. in (Chemistry/ Chemical Engineering/ Petroleum Engineering/ Petrochemical Engineering/Oil & Fats Engineering) with three years of post Ph.D. Research Experience in Membrane based Separation Processes Development	Proven track record in synthesis, characterization of composite membrane materials along with membrane module design for gas and liquid mixture separations relevant to petroleum refining and gas processing industry	Cutting edge R&D in the area of Membrane separations, to conceive new ideas and initiate new research projects in the area of membrane for liquid as well as gas separation, capability of scientific writing such as research papers, scientific reports and patents, etc.
<b>Post Code: WXR-1</b> <b>Area: Petroleum Upstream &amp; Wax Rheology</b> 01 Post (UR)	Pay level – 13 (Rs. 123100-215900)	Principal Scientist (45 Years)	Ph.D. in (Petroleum Engineering/Chemical Engineering/ Petrochemical Engineering/Chemistry) with three years of post Ph.D. research experience	Proven track record in upstream process of petroleum like synthesis/applications of oilfield chemicals for EOR, gas hydrate synthesis and decomposition, drilling fluids, fluid loss control.	To carry out cutting edge R&D in the area of Upstream. The candidate would lead a team and is expected to conceive new ideas and initiate new research projects in this area. The candidate is expected to interact with industry and solve their problems and provide cutting edge technologies.

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Post Code/Area /No. of Positions & Reservation	Pay Scale	Post & Maximum Age limit (as on last date of online application)	Essential Educational Qualifications & Experience	Desirable Experience	Job Requirement
<b>Post Code: MRED-1</b>  <b>Area: Material Resource Efficiency</b>  01 Post (UR)	Pay level – 13 (Rs. 123100-215900)	Principal Scientist (45 Years)	Ph.D. in (Biotechnology/ Microbiology) with three years' post Ph.D. relevant experience in the areas of Biotechnology/ Microbiology	Research Experience in Air, Water, Membrane based Separation Processes Development.  Proven track record in research experience in pollution control/abatement of Air, Waste Water Knowledge in the area of environmental laws, policies related to environment.	To carry out cutting edge R&D in the area of Environmental Biotechnology. The candidate is expected to conceive new ideas and initiate new research projects in the area of Industrial Environmental Biotechnology in coordination with chemical/biochemical treatment groups. Capability of scientific writing such as research papers, scientific reports and patents, etc.

**Apart from qualifications indicated above, any other recognized qualification, which is equivalent to the prescribed qualification, shall be treated at par with that qualification.**

### **General information and conditions**

**1. Benefits under Council service:**

- a. These posts carry usual allowances i.e. Dearness Allowance (DA), House Rent Allowance (HRA), Transport Allowance (TA) etc. as admissible to the central government employees and as made applicable to CSIR. Council employees are also eligible for accommodation of their entitled type as per CSIR allotment rules depending on availability in which case HRA will not be admissible.
- b. In addition to the emoluments indicated against each category of posts, benefits such as applicability of New Pension Scheme 2004, reimbursements of Medical Expenses, Leave Travel Concession, Conveyance advance and House Building Advance are available as per CSIR rules.
- c. Scientists in CSIR are also permitted to undertake consultancy and sponsored R&D project activity. These activities give them scope to earn consultancy fee and royalty as per CSIR guidelines governing these activities. Opportunities also arise for foreign deputations for training/presentation of papers/specific assignments etc.
- d. CSIR provides excellent opportunities to deserving candidates for career advancement under Assessment Promotion scheme for Scientists.
- e. Deserving candidates may be considered for advance increment as per CSIR Rules.

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## 2. Other conditions

- a. The applicant must be a citizen of India.
- b. All applicants must fulfill the essential requirements of the post and other conditions stipulated in the advertisement as on the last date of receipt of the applications. They are advised to satisfy themselves before applying that they possess at least the essential qualifications laid down for various posts as on the last date of receipt of the applications. No enquiry asking for advice as to eligibility will be entertained.

The prescribed essential qualifications are the minimum and the mere possession of the same does not entitle candidates to be called for interview. The duly constituted Screening Committee will adopt its own criteria for short-listing the candidates. The candidate should therefore, mention in the application all the qualifications and experiences in the relevant area over and above the minimum prescribed qualification, supported with documents. Completion of Ph.D. degree will be reckoned from the date of issue of provisional certificate/notification.

- c. The application should be accompanied by self attested copies of the relevant educational qualification, experience. The prescribed qualifications should have been obtained through recognized Universities / Institutions. etc. Incomplete application/applications received or not accompanied with the required certificates / documents are liable to be rejected.
- d. In respect of equivalent clause in Essential Qualifications, if a candidate is claiming a particular qualification as equivalent qualification as per the requirement of advertisement, then the candidate is required to produce order/letter in this regard, indicating the Authority (with number and date) under which it has been so treated otherwise the Application is liable to be rejected.
- e. The period of experience rendered by a candidate on part time basis, daily wages, visiting/ guest faculty will not be counted while calculating the valid experience for short listing the candidates for interview.
- f. **Preference will be given to the candidates involved in Product Development/Technology Innovation/Applied Technology/Translational Research etc.**
- g. If any document/ certificate furnished in a language other than Hindi or English, a transcript of the same duly attested by a Gazetted officer or notary is to be submitted.
- h. The date for determining the upper age limit, qualifications and /or experience shall be the closing date prescribed for receipt of applications.
- i. The period of experience in a discipline / area of work, wherever prescribed, shall be counted after the date of acquiring the minimum prescribed educational qualifications prescribed for that Grade.
- j. **Persons with disabilities (PWD) fulfilling the eligibility conditions prescribed under GOI instructions are encouraged to apply.**
- k. **In case a candidate is staying abroad, his/her candidature may be considered *in absentia* by the Selection Committee on his/her written request.**
- l. **The Selection Committee may choose to place the candidate in any of the Entry Pay Level (EPL) depending upon the performance of the candidate and subject to meeting the minimum eligibility criterion specified.**

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- m. Only outstation candidates called and found eligible for interview will be paid to and fro single second class rail fare from the actual place of undertaking the journey or from the normal place of their residence whichever is nearer to Dehradun on production of Rail Tickets/Rail Ticket Numbers or any other proof of journey. Any discrepancy found between the information given in application and as evident in original documents will make the candidate ineligible for appearing in interview. Such candidate will not be paid any fare.
- n. The decision of the IIP/CSIR in all matters relating to eligibility, acceptance or rejection of applications, mode of selection, conduct of examination/interview will be final and binding on the candidates.
- o. **Canvassing in any form and / or bringing any influence political or otherwise will be treated as a disqualification for the post.**
- p. **NO INTERIM ENQUIRY OR CORRESPONDANCE WILL BE ENTERTAINED.**

**3. Relaxations :**

- a. The upper age limit is relaxable upto 05 years for SC/ST and 03 years for OBC as per Government orders in force only in those cases where the post are reserved for respective categories, on production of relevant certificate in the prescribed format signed by the specified authority at the time of interview.
- b. Upper age limit is also relaxable upto five years for the regular employees working in CSIR laboratories/institutes, Government Departments, autonomous bodies and public sector undertakings.
- c. As per GOI provisions, age relaxation for Widows, Divorced Women and Women Judicially separated from Husbands, the upper age limit is relaxable up to the age of 35 years (upto 40 years for members of Scheduled Castes/Scheduled Tribes and upto 38 years for members belonging to the Other Backward Classes in respect of the posts reserved for them) for Widows, divorced Women and Women Judicially separated from their Husbands who are not remarried. The persons claiming age relaxation under this sub-para would be required to produce following documentary evidence:
  - i) In case of Widow, Death Certificate of her husband together with the Affidavit that she has not remarried since.
  - ii) In case of divorced Women and Women judicially separated from their husbands, a certified copy of the judgment/decreed of the appropriate Court to prove the fact of divorce or the judicial separation, as the case may be, with an Affidavit in respect of divorced Women and they have not remarried since.
- d. Age relaxation to Persons with Disabilities(PWD): Age relaxation of 10 years (total 15 years for SCs/STs and 13 years for OBCs in respect of the posts reserved for them) in upper age limit is allowed to persons suffering from(a) blindness or low vision ,(b)hearing impairment and (c) locomotor disability or cerebral palsy for appointment to Group 'A' posts/services subject to the condition that maximum age of the applicant on the closing date is not exceeding 56 years. The persons claiming age relaxation under this sub-para would be required to produce a certificate in prescribed proforma in support of their claims clearly indicating that the degree of physical disability is 40% or more. In any case, the appointment of these candidates will be subject to their being found medically fit in accordance with the standards of medical fitness as prescribed by the Government for each individual Group 'A' posts to be filled by Direct Recruitment by Selection.

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- e. Relaxation in age, over and above the stipulated limit, educational qualification and/or experience may be considered in case of exceptionally meritorious candidates or if sufficient number of candidates possessing the requisite qualification and/ or experience are not available to fill up the posts.
- f. Relaxation of five years will also be permissible to those who had ordinarily been domiciled in the Kashmir division of the state of Jammu and Kashmir during the period from 1-1-1980 to 31-12-1989 subject to production of relevant certificate from concerned authority.

**4. How to apply :**

- a. Eligible candidates are required to apply ONLINE through our website <http://www.iip.res.in>
- b. If the candidate does not have a valid E-mail ID, he/she should create a new valid E-mail ID before applying online.
- c. Online Application will be available on our website [www.iip.res.in](http://www.iip.res.in) up to 08.12.2020.
- d. Candidates belonging to General and OBC category are required to arrange to deposit fee for Rs.100/- through SB Collect". Procedure for submitting online fee is given as under:
- (1) Open site <https://www.onlinesbi.com>
  - (2) Click on "SB Collect"
  - (3) Accept terms and conditions and click on proceed
  - (4) In field "State of Corporate/Institution" Select "All India"
  - (5) In field "Type of Corporate/Institution" Select "Govt. Department"
  - (6) In field "Govt. Dept. Name" Select "Director-IIP".
  - (7) In field "Select Payment Category" Select "Application Fee"
  - (8) In field "Type of Application" select "Regular Appointment"
  - (9) Fill all the information & mention Related Dept. as "Recruitment" and submit the requisite fee.
  - (10) Printout of the fee receipt is to be attached with the generated application form.
- e. In case of Universities/Institute awarding CGPA/SGPA/OGPA grades etc., candidates are requested to convert the same into percentage based on the formula as per their University/Institute.
- f. Successful online application is indicated by the page displayed after clicking **Submit Button** indicating the generated "**APPLICATION NUMBER**". Please note down the same carefully and preserve it. If you do not preserve it, you will not be able to Re-print the Application.
- g. This computer generated application (Print-out) duly signed and accompanied by self attested copies of the certificates, mark sheets, testimonials in support of age, education qualifications, experience, re-prints of publications and caste certificate, if applicable along with one recent passport size self-signed photograph affixed together with Demand Draft (if applicable) should be sent in an envelope superscribed "**APPLICATION FOR THE POST OF \_\_\_\_\_ (Post Code \_\_\_\_\_)**" by Registered/Speed Post to the address:- **Controller of Administration, CSIR-Indian Institute of Petroleum, P.O. IIP, Mohkampur, Haridwar Road, Dehradun-248005 (Uttarakhand)**. The last date for receipt of hard copy of application is 15.12.2020. Candidates applying for more than one post must submit separate application form for each post indicating the Code No. of the post. The hard copy(s) of each application must be accompanied by separate Demand Draft(s).

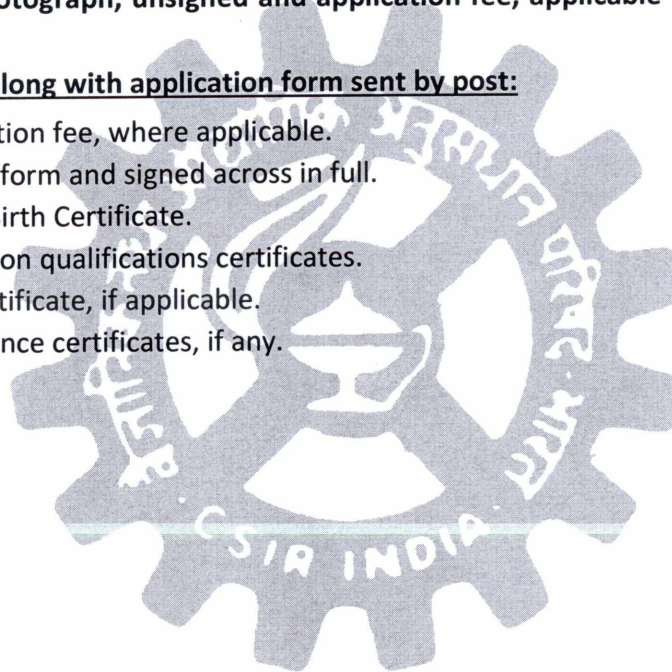
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- h. Application once made will not be allowed to be withdrawn and fees once paid will not be refunded on any count nor can it be held in reserve for any other recruitment or selection process.
- i. Applications from employees of Government Departments will be considered only if forwarded through proper channel, certified by the employer that the applicant, if selected will be relieved within one month of the receipt of the appointment orders. Also, vigilance clearance should also be recorded. However, advance copy of the application may be submitted before the closing date. Applications routed through proper channel should reach CSIR-IIP at the earliest.
- j. Candidates should specifically note that the applications received after the closing date for any reason whatsoever (such as envelopes wrongly addressed, delivered elsewhere, postal delay etc.) will not be entertained by CSIR-IIP.
- k. Incomplete applications (i.e. without photograph, unsigned and application fee, applicable testimonials etc.) will not be entertained and will be summarily rejected.

5. **Following documents must be attached along with application form sent by post:**

- (a) Demand Draft of Rs.100/- as application fee, where applicable.
- (b) Coloured photograph pasted on the form and signed across in full.
- (c) Self Attested photocopy of Date of Birth Certificate.
- (d) Self Attested photocopies of education qualifications certificates.
- (e) Self Attested photocopy of caste certificate, if applicable.
- (f) Self Attested photocopies of experience certificates, if any.



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Controller of Administration

प्रशासन नियंत्रक/Controller of Administration  
सी.एस.आई.आर.-भारतीय पेट्रोलियम संस्थान  
CSIR-Indian Institute of Petroleum  
देहरादून/Dehradun-248005

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