

# PETROLEUM ENGINEER

Petroleum Engineers help find oil and gas for the country's energy needs. Petroleum Engineers design and develop methods for extracting oil and gas from deposits below the Earth's surface. Petroleum Engineers also find new ways to extract oil and gas from older wells.

## PERSONAL COMPETENCIES

- You like to assemble things
- You like to do experiments
- You like Science and Maths
- You like working outdoors



## SCHOLARSHIPS

- **Merit-cum-Means based Scholarship** - About 20,000 such engineering scholarships are awarded by the Ministry of Minority Affairs every year. The full course fees of awardees is directly paid to their institutions under this scheme. \*
  - **Indian Oil Educational Scholarship**- The IOC Ltd offers 300 scholarships every year to eligible students. Students need to be enrolled in an undergraduate course. The scholarship particularly focuses on students with physical disabilities, women and students from North East and J&K.\*
  - "Ishan Uday" Special Scholarship Scheme - For promoting higher education and for encouraging children belonging to economically weaker section of the NE region, the UGC has launched "Ishan Uday" Special Scholarship Scheme for North Eastern Region students.
  - Visit [www.scholarships.gov.in](http://www.scholarships.gov.in) the National Scholarship Portal. Under this portal there are other central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes.\*
  - Visit [www.buddy4study.com](http://www.buddy4study.com) a gateway to scholarships starting from Class XI.\*
  - Scholarships are also available in the institutes based on merit.\*
- \*(Availability of these scholarships vary from time to time)

## LOANS

- VidyaLakshmi, [www.vidyalakshmi.co.in](http://www.vidyalakshmi.co.in), is a portal for students seeking education loan. This portal has been developed under the guidance of the Department of Financial Services, (Ministry of Finance), Department of Higher Education (Ministry of Human Resource Development) and Indian Banks Association (IBA). Students can view, apply and track the education loan applications on the website.
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.



The approx. course fee ranges between **INR 15,000-15,00,000\*** for the full course.

\*(The above mentioned figures are approximate numbers. This will vary from Institute to Institute)

## ENTRY PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry, Biology)
2. Complete Bachelor's degree (B.E./B.Tech./B.Sc.) in Petroleum Engineering **OR** Complete Bachelor's degree and follow it up with Master's degree (M.E./M.Tech./M.Sc.) in the same discipline **OR** Complete Diploma in Petroleum Engineering and follow it up with M.S. in Research Petroleum Refining and Petrochemicals

For admissions, you must qualify entrance examination conducted at national level (JEE Main, JEE Advanced etc.) or state level (WBJEE, AP EAMCET etc.) or institute level (VET, IP etc.) conducted by respective state governments such as WBJEE or AP EAMCET.

*Please check the duration of the course during enrolment*



## EXPECTED INCOME

*The figures are indicative & subject to change*

The approx. salary of a Petroleum Engineer ranges between **INR 16,750 - 3,34,000\*** per month.

Source: [https://www.payscale.com/research/IN/Job=Petroleum\\_Engineer/Salary](https://www.payscale.com/research/IN/Job=Petroleum_Engineer/Salary)





## WHERE WILL YOU WORK

**Places of Work:** You can work on both onshore and offshore Oil and Gas companies as well as Petroleum and Petrol refining companies across India.

**Work Environment:** This job generally involves travel. You will usually work for 5 to 6 days a week and 8 to 9 hours everyday. This may vary from company to company. Shift system might be applicable.

*Opportunities for differently abled exist in this field*

## EXPECTED GROWTH PATH

Associate Chemical Engineer → Petroleum Engineer → Senior Chemical Engineer, Petroleum

Search keywords...



*petroleum engineer, petroleum refining engineer, hydrocarbon*

## WHERE WILL YOU STUDY?

This course is offered by the Department of Chemical Engineering

*This list of institutes is indicative only*

### GOVERNMENT INSTITUTES

1. Dibrugarh University, Dibrugarh
2. Jawaharlal Nehru Technological University College of Engineering, Kakinada
3. Alagappa College of Technology, Chennai
4. Zakir Husain College of Engineering and Technology Aligarh Muslim University, Aligarh
5. Indian Institute of Petroleum and Energy, Visakhapatnam
6. Government Polytechnic College, Jodhpur (Diploma)
7. Rajiv Gandhi Institute of Petroleum Technology, Amethi
8. Dibrugarh University Institute of Engineering and Technology, Dibrugarh

### PRIVATE INSTITUTES

(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. Presidency University, Bangalore
2. School of Engineering, University of Petroleum and Energy Studies, Dehradun
3. Manipal University, Jaipur
4. MIT WPU Faculty of Engineering, Pune
5. Koneru Lakshmaiah Education Foundation, Guntur
6. Aditya Engineering College, Surampalem
7. NIMS University, Jaipur
8. ITM University, Gwalior

Information on institute rankings is available at -

[www.nirfindia.org/2022/Ranking.html](http://www.nirfindia.org/2022/Ranking.html)

### DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

### ONLINE COURSES

- NPTEL\* Swayam - [https://onlinecourses.nptel.ac.in/noc20\\_ch24/preview](https://onlinecourses.nptel.ac.in/noc20_ch24/preview)
- Coursera - <https://www.coursera.org/courses?query=petroleum%20engineering>

\*NPTEL - National Programme in Technology Enhanced Learning. It is by the Government of India and offers a variety of courses in an audio-video form.

## EXAMPLE FROM THE FIELD

**Sanchita Banerjee** is the first woman engineer of Oil India Ltd. An alumni of Calcutta University where she studied engineering. She then joined Oil India Limited and started working as shift engineer at the Extraction plant of LPG from Natural Gas through cryogenic process in Assam. Within the organization, she has been instrumental in bringing about policies on maternity leave, child care leave and worked on issues of foreign training and foreign posting for women employees, management training for junior employees, and so on. She is now a retired executive director at Oil India Ltd.\*

Source:

<https://www.accenture.com/in-en/about/inclusion-diversity/vaahini-sanchita-banerjee>

\*The above information is for training purposes only and will not be used for any commercial gains.