

MECHANICAL ENGINEER

Mechanical Engineers design, develop, build and test all sorts of mechanical devices, tools, engines and machines in just about every type of industry.

PERSONAL COMPETENCIES

- You have an analytical mind and can think critically
- You enjoy solving problem
- You like Mathematics
- You have excellent communication skills



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 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 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, 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 20,000 - 2,00,000***

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

ENTRY PATHWAY

1. Complete 10+2 in Science stream (Physics, Chemistry and Mathematics)
2. Complete a Bachelor's degree (B.Tech./B.Sc./B.E.) in Mechanical Engineering OR Complete a Bachelor's degree and pursue a Master's degree (M.Tech./M.Sc./M.E.) in Mechanical Engineering

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.)

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of a Mechanical Engineer ranges between **INR 15,000 - 80,000*** per month.

Source - https://www.payscale.com/research/IN/Job=Mechanical_Engineer/Salary



WHERE WILL YOU WORK

Places of Work:

Engineering services, Research and development and manufacturing.

Work Environment:

You will work in offices. You may have to occasionally visit worksites where a problem or piece of equipment needs personal attention. You have to work for 8/9 hours per day and for 5/6 days per week.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Assistant Engineer → Mechanical Engineer
→ Senior Mechanical Engineer →
Operations Manager

WHERE WILL YOU STUDY?

The course is offered by the Department of Mechanical Engineering. This list of institutes is indicative only.

GOVERNMENT INSTITUTES

1. IIT Guwahati
2. Dibrugarh University, Dibrugarh
3. NIT Silchar
4. Tezpur University, Tezpur
5. IIT Madras
6. IIT Kharagpur
7. NERIST Itanagar
8. NIT Arunachal Pradesh

PRIVATE INSTITUTES

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

1. Assam Don Bosco University, Guwahati
2. Vellore Institute of Technology
3. Regional Institute of Science and Technology, Guwahati
4. Dayananda Sagar College of Engineering, Bangalore
5. RV College of Engineering, Bangalore
6. PSG Tech Coimbatore
7. Ramaiah Institute of Technology, Bangalore
8. BMS College of Engineering, Bangalore

Information on the institute rankings can be found at -
<https://www.nirfindia.org/2022/Ranking.html>

Search keywords... 

senior mechanical engineer, mechanical engineer, mechanical engineering jobs



EXAMPLE FROM THE FIELD

Padmashree awardee **Lila Poonawalla** is the first Indian woman to obtain a Mechanical Engineering degree from College of Engineering, Pune. She began her career as an apprentice at Ruston and Hornsby in England. She later joined Alfa Laval, a Swedish company, which deals in the production of specialised products and solutions for heavy industry, as a trainee engineer. She held several positions at the company and later was chosen as a chairperson.*

Source: <https://economictimes.india-times.com/how-alfa-lavals-lilapoowalla-is-leveraging-lessons-from-career-to-promote-higher-education-for-underprivileged-girls/article-show/34829121.cms?from=mdr>

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