

INSTRUMENTATION ENGINEER

An Instrumentation Engineer works in the field of designing, developing, installing, managing equipment that are used to monitor and control machinery

PERSONAL COMPETENCIES

- You pay attention to details
- You enjoy solving problems
- You like to think out-of-the-box
- You are creative



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 themselves 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 4,000 - 16,00,000***

*(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.E.) in Instrumentation and Control Engineering
- OR**
- Complete Diploma in Instrumentation and Control Engineering

Complete Bachelor's degree and follow it up with a Master's degree in the same or allied fields

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 an Instrumentation Engineer ranges between **INR 20,000 - 80,000*** per month

Source: https://www.payscale.com/research/IN/Job=Instrumentation_Engineer/Salary_Sound_Engineer/Salary?loggedIn



WHERE WILL YOU WORK

Places of Work: Manufacturing companies, Government and Private engineering firms, Defence contractors, Biomedical firms, Steel plants, Thermal plants, Chemical manufacturing companies

Work Environment: You will work in an office set up. You are likely to work 5 to 6 days a week and 8 to 9 hours every day.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Technician Instrumentation →
Instrumentation Supervisor

WHERE WILL YOU STUDY?

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

GOVERNMENT INSTITUTES

1. JNTU, Hyderabad
2. Government Polytechnic, Mumbai (Diploma)
3. Ambedkar Institute of Technology, Delhi (Diploma)
4. Central Institute of Technology, Kokrajhar (Diploma)
5. Government Polytechnic, Ahmednagar (Diploma)
6. IIT Kharagpur
7. NIT Trichy
8. Government College of Engineering, Amravati

PRIVATE INSTITUTES

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

1. Thapar Institute of Engineering and Technology, Patiala
2. Calcutta Institute of Engineering and Management
3. Sant Longowal Institute of Engineering & Technology, Punjab
4. Smt. Indira Gandhi College of Engineering, Mumbai
5. Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering and Technology, Hyderabad
6. St. Joseph's College of Engineering, Chennai
7. Manipal Institute of Technology
8. Hindusthan College of Engineering and Technology, Coimbatore

Information on institute rankings is available at -
<https://www.nirfindia.org/2022/Ranking.html>



EXAMPLE FROM THE FIELD

Rajendra P Patil is an industrial consultant and currently the head of power plant of Total Plant. He has a BE in Instrumentation and 35 years of expertise in the industry.*
Source: <https://www.upskul.tech/courses/certified-industrial-instrumentation-professional/>

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

Search keywords...



*instrumentation engineering technician,
instrumentation engineer, instrumentation and control*