

WATER RESOURCE ENGINEER

Water Resources Engineers develop and execute plans for developing water systems that provide clean, safe water in an efficient way that is also good for the planet. They try to effectively distribute water across several construction projects throughout the city. They prepare new designs and strategies to conserve more water and energy overall.

PERSONAL COMPETENCIES

- You enjoy figuring out how things work
- You enjoy Science and Maths
- You like to analyse problems/situations
- You can work under pressure



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.*
 - Visit www.scholarships.gov.in the National Scholarship Portal. Under this portal there are 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 made available by 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 1,50,000-10,00,000***

*(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 and Mathematics)
2. Complete Bachelor's degree (B.Tech./B.E./B.Sc.) in Water Resource Engineering
OR
Complete Bachelor's degree and follow it up with Master's (M.Tech./M.E./M.Sc.) in the same discipline
OR
Complete Bachelor's degree (B.Tech./B.E./B.Sc.) in Civil Engineering followed by a Master's degree (M.Tech./M.E./M.Sc.) in Water Resource 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 Water Resource Engineer ranges between **INR 17,334 - 1,67,000*** per month.

Source - https://www.payscale.com/research/IN%03/-Job=Water_Resources_Engineer/Salary



WHERE WILL YOU WORK

Places of Work: Construction units, Government bodies such as the Central Ground Water Board, Ministry of Water Resources, Private organizations dealing with hydraulics and water management

Work Environment: Companies 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. This is a field job and might require you to occasionally work overtime

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH

Associate Engineer → Water Resource Engineer → Executive Engineer → Senior Engineer

Search keywords... 

water resource engineer, civil engineer, water supply expert

WHERE WILL YOU STUDY?

This course is offered by the Department of Engineering.

This list of institutes is indicative only.

GOVERNMENT INSTITUTES

1. Jawaharlal Nehru Technological University, Kakinada
2. Krishna University, Andhra Pradesh
3. IIT, Madras
4. IIT, Bombay
5. IIT, Kharagpur
6. IIT Delhi
7. IIT, Kanpur
8. National Institute of Technology (NIT), Trichy

PRIVATE INSTITUTES

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

1. Bir Tikendrajit University, Manipur
2. All India Institute of Diabetes and Research, Naranpura, Gujarat
3. Krea University, Andhra Pradesh
4. Koneru Lakshmaiah Education Foundation University, Andhra Pradesh
5. Hindustan Institute of Technology and Science, Chennai
6. Angadi Institute of Technology and Management, Karnataka
7. Bheemanna Khandre Institute of Technology, Bhalki
8. Royal School of Engineering and Technology, Guwahati

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

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

ONLINE COURSES

- NPTEL* Swayam offers an online course on Water Resource Engineering (*Source:*
<https://nptel.ac.in/courses/105104103>)
 - Udeemy -
<https://www.udemy.com/course/water-resources-and-environmental-engineering/>
- *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

Evelyn Cortez-Davis is the first Latina and second woman to be appointed director of water engineering and technical services at the Los Angeles Department of Water and Power. She has obtained her degree in Civil Engineering in 1992 from UCLA Samueli, and has now been a civil engineer for more than 25 years gaining experience from the water industry. She is now currently based in Los Angeles.*

Source :

<https://www.ceed.ucla.edu/alumni-highlight-evelyn-cortez-davis/>

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