

AGRICULTURAL ENGINEER

An agricultural engineer is a professional who applies and uses the principles of agriculture and engineering to come up with solutions in the sector. They design and develop new farming technologies that help in making farming more efficient in terms of sustainability, safety and environment-friendly. Their roles entail designing, constructing and modernizing farming equipment and machinery to improve land use, increase yields, and conserve resources.

PERSONAL COMPETENCIES

- You like to build or assemble things
- You like to analyse/interpret given information
- You like to lead
- You like to solve problems



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 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 6,000 - 1,33,333*** for one year.

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

ENTRY PATHWAY

1. Complete 10+2 in the Science stream
 2. Complete Bachelor's degree in Agricultural Engineering and Technology/Biotechnology
- OR**
- Complete Bachelor's degree and follow it up with Master's in Agriculture Engineering
- OR**
- Complete Diploma in Agriculture Engineering

For admissions, you must qualify JEE Main. JEE Advanced is needed for admissions to IITs. Other entrance exams can be taken: ICAR/GATE/AIEEA/MHT/CET/UPCATET/AP EAMCET/CG PAT/SHIATS Entrance Exam/CCSHAU Entrance Exam/Assam Agriculture University VET/Rajasthan JET/AGRICET

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of an agricultural engineer ranges between **INR 16,000 - 80,000*** per month.

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

WHERE WILL YOU WORK

Places of Work: Private Offices, Factory, On-Field, Laboratory.

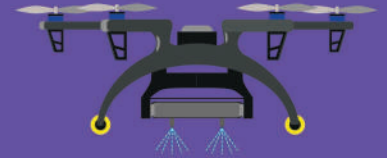
Work Environment: You will typically work in offices, but may spend time at a variety of worksites, both indoors and outdoors. You may travel to agricultural settings to see that equipment and machinery are functioning according to the manufacturers' specifications.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Engineer Trainee → Assistant Engineer → Senior Engineer → Operations Manager → Head of Geographical Unit → Head of Company/CEO



WHERE WILL YOU STUDY?

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. IIT, Guwahati
2. IIT, Kanpur
3. IIT, Jodhpur
4. Assam University, Silchar
5. NERIST, Itanagar
6. Central Agricultural University, Imphal
7. College of Agricultural Engineering and Post Harvest Technology, Gangtok

PRIVATE INSTITUTES

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

1. NorthCap University, Gurgaon
2. William Carey University - WCU, Shillong
3. Presidency University, Bangalore
4. Chitkara University, Himachal Pradesh
5. Lingaya's Vidyapeeth, Faridabad
6. BITS Pilani

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

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

ONLINE COURSES

•NPTEL* Swayam -

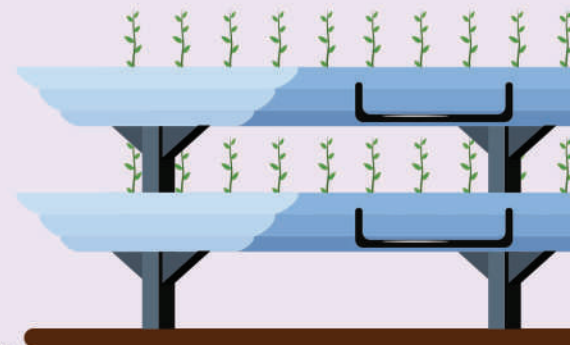
https://onlinecourses.swayam2.ac.in/arp19_ap94/preview

*NPTEL stands for National Programme on Technology Enhanced Learning, which is a programme initiated by the Government of India that offers numerous audio and video courses on a wide variety of subjects and aims to make learning accessible for all

Search keywords...



agricultural engineer, agricultural engineering, agricultural engineering university



EXAMPLE FROM THE FIELD

Dr. Shyam Narayan Jha is the President of the Indian Society of Agricultural Engineers. He is recognized for his pioneering research on nondestructive evaluation of food quality and makhana processing in India. He is the first principal investigator of ICAR mega-project on Secondary Agriculture. He has contributed significantly in National and International issues/policy making, formulating central sector schemes of Agricultural Processing in the country and is member of numerous scientific panels.*

Source: <https://isae.in/about-isae-president/>

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