

Agriculture and Allied Sciences



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.

PERSONALITY TRAITS



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



SCHOLARSHIPS

- Kishore Vaigyanik Protsahan Yojana Scholarship - This scholarship is provided to students enrolled in the first year of their engineering undergraduate course. Eligibility includes an aptitude test. It is awarded by the Government of India for economically backward students who have a strong aptitude for scientific research.*
 - 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 6,000 - 1,33,333*** for one year.

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

EDUCATIONAL 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 course is offered by the Department of Computer Science and Engineering.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Indian Institute of Technology, Chennai, Tamil Nadu
2. Indian Institute of Technology, Kanpur, Uttar Pradesh
3. Indian Institute of Technology, Guwahati, Asam
4. Periyar University, Palkalai Nagar, Tamil Nadu
5. Indian Institute of Technology, Jodhpur, Rajasthan
6. International Institute of Information Technology, Bhubaneswar, Odisha
7. Indian Institute of Technology, Roorkee, Uttarakhand

PRIVATE INSTITUTES

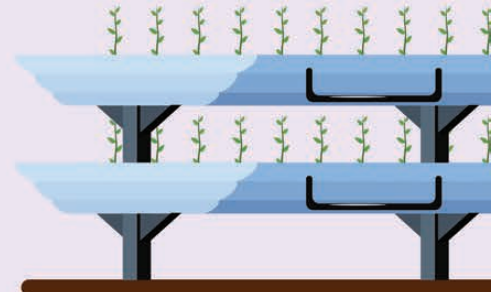
(Please check if institute is affiliated and accredited with UGC and AICTE before applying)

1. NorthCap University, Gurugram
2. Chandigarh University, Chandigarh
3. Presidency University, Bengaluru, Karnataka
4. Chitkara University, Baddi, Himachal Pradesh
5. Lingaya's Vidyapeeth, Faridabad, Haryana
6. Birla Institute of Technology & Science, Pilani, Rajasthan

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

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)



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.

Search keywords...



Agricultural Engineering, Precision Farming Techniques, Farm Machinery Innovations, Agricultural Robotics.

AGRONOMIST

Agronomists are scientists who specialize in crop production and soil management. They try to find ways to maximize crop production. They perform experiments to determine and enhance plant nutrients and soil health.

PERSONALITY TRAITS

- You enjoy Science/Agriculture
- You like working outdoor
- You like to analyze things (problems and situations)



The approx. course fee ranges between **INR 2,00,000 - 3,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

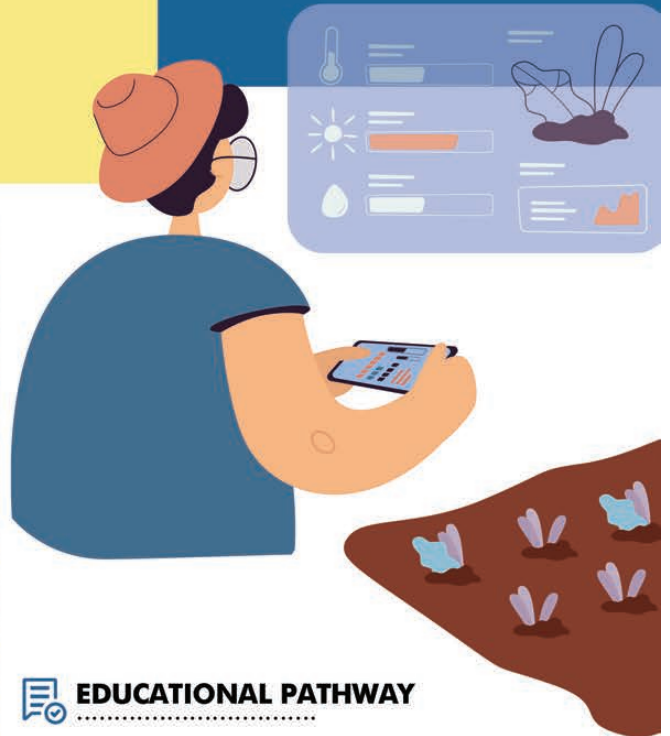
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LOANS

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream (Physics, Chemistry and Biology)
2. Complete a Bachelor's degree (BSc) in Agriculture/Biotechnology/Microbiology/Plant Genetics or any related subject

OR

3. Complete a Bachelor's degree followed by a Master's degree in the same or related field



EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of an Agronomist ranges between **INR 8,000 - 85,000*** or more per month.

Source: bit.ly/3D0Qczk

WHERE WILL YOU WORK?

Places of Work: Agriculture Co-operative Organizations, Government Research Institutes, Non-governmental Organizations, Farms, Private Research Companies and others

Work Environment: It is field job. You are likely to supervise a team. You are likely to work 5 to 6 days a week, 8 to 9 hours everyday. Local travel is part of the job profile. Part-time and contractual jobs may be available

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Agronomist → Senior Agronomist →
Head of Engineering Operations →
General Manager → Head of
Company/CEO

Search keywords...



Agronomist, Agriculture Scientist

WHERE WILL YOU STUDY?

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

GOVERNMENT INSTITUTES

1. Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur, Madhya Pradesh
2. Banaras Hindu University, Varanasi, Uttar Pradesh
3. Uttaranchal University, Dehradun, Uttarakhand
4. Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan
5. Bidhan Chandra Krishi Viswa Vidyalaya, Mohanpur, West Bengal
6. Indira Gandhi Agricultural University, Raipur, Chhattisgarh
7. Pandit Jawaharlal Nehru College of Agriculture & Research Institute, Puducherry
8. Swami Sarvanand Institute of Management and Technology, Gurudaspur, Punjab

OTHER INSTITUTES

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

1. Indian Agricultural Research Institute, New Delhi
2. Indian Veterinary Research Institute, Bareilly, Uttar Pradesh
3. National Dairy Research Institute, Karnal, Haryana
4. Banasthali Vidyapith, Jaipur, Rajasthan
5. ICAR- Central Institute of Fisheries Education, Mumbai
6. Dr DY Patil College of Agriculture Business Management, Pune
7. Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj, Uttar Pradesh
8. Indian Agricultural Research Institute, New Delhi

Information on the institute rankings can be found at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

EXAMPLE FROM THE FIELD

C. Jayanthi, Director of Department of Crop Management at the Tamil Nadu Agricultural University (TNAU) was awarded the gold medal by the Indian Society of Agronomy to recognise her contribution to the field. Jayanthi pursued her Bachelor's in Agricultural Sciences from the TNAU, Master's in Agronomy, and PhD in the same field in 1992.*

Source: <https://timesofindia.india-times.com/city/coimbatore/t-naus-jayanthi-1st-woman-to-win-society-of-agronomy-gold/articleshow/55919875.cms>

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



ANIMAL HEALTH WORKER

An Animal Health Worker provides preventive health care, assistance in disease control and basic first aid services to farm animals and poultry. He or she works under indirect or distant supervision of registered veterinarian.

PERSONALITY TRAITS



- You like to take care of animals
- You enjoy Science
- You like to lead
- You like working outdoors



The approx. course fee ranges between **INR 20,000-3,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry, Biology)
2. Complete a Bachelor's degree (B.Sc.) in Veterinary Science and Animal Husbandry/- Animal Science/Animal Husbandry and Dairying etc.

OR

Complete a Bachelor's degree followed by a Master's degree in the same or allied subject

OR

Follow it up with a National Skill Qualification Framework Level 4 Qualification in Aquatic Animal Health Lab Assistant or similar courses

OR

Pursue B.Voc. in Veterinary Science

Please check the duration of the course during enrolment



EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of an Animal Health Worker ranges between **INR 20,000 - INR 37,500*** per month.

Source: <https://bit.ly/3Hkcy15>

WHERE WILL YOU WORK?

Places of Work: Government Agencies supporting farmers and NGOs

Work Environment: It is not a desk job. You will be working outdoors. Local travel is part of the job profile. You will run the risk of getting bitten, kicked or scratched by frightened animals. You can expect your workplace to be both noisy and smelly. You are likely to have regular work hours, that is, 8 to 9 hours a day for 5 to 6 days a week.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Animal Health Worker → Supervisor/
Registered Veterinarian →
Area Manager
OR
Animal Health Worker → Trainer →
Supervisor

WHERE WILL YOU STUDY?

This course is offered by the Department of Veterinary & Animal Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Agriculture Skill Council of India, New Delhi
2. Presidency College, Chennai, Tamil Nadu
3. St Xavier's College, Ahmedabad, Gujrat
4. Hindu College, New Delhi
5. Government Arts College, Coimbatore, Tamil Nadu
6. Farook College, Kozhikode, Kerala
7. St Stephens College, Delhi
8. Hansraj College, New Delhi

PRIVATE INSTITUTES

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

1. Singhanian University, Jhunjhunu, Rajasthan
2. Bhagwant University, Ajmer, Rajasthan
3. Dr KN Modi University, Niwai, Rajasthan
4. Sangam University, Bhilwara, Rajasthan
5. Abhilashi University, Chachyot, Himachal Pradesh
6. Apex Institute of Veterinary Livestock Development Diploma, Tohana, Haryana
7. Apex University, Jaipur, Rajasthan
8. Arawali Veterinary College, Sikar, Rajasthan

DISTANCE LEARNING INSTITUTE

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EXAMPLE FROM THE FIELD

Bhadurani Mahto (35), a resident of Indatada village in East Singhbhum district headquarters, Jharkhand, is a pashu-sakhi (animal friend or animal health worker). Her work includes advising farmers about health check-ups for their livestock, vaccination, deworming, hygiene, breeding, feeding, and management of animal waste. The project was conceived under the National Rural Livelihood Mission, with the objective of providing last mile coverage of livestock management. In 2017-18, the Jharkhand Opportunities for Harnessing Rural Growth (JOHAR) took the project under its wing and the World Bank began funding it.*

Source: <https://www.gaonconnection.com/aajeevikaconnection/livestock-nurse-effort-make-poultry-and-goat-farming-profitable-43214>

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Search keywords... 

animal health worker, livestock service provider, community veterinarian

6

AQUACULTURE WORKER

Aquaculture is the controlled process of cultivating aquatic organisms, especially for human consumption. An Aquaculture Worker is responsible for assisting in various aquaculture activities such as preparing the farm for culturing various fish species; maintenance of the species, equipment, water and waste disposal systems. The individual is also responsible for assisting in harvesting the fish and carrying out its post-harvest processing.

PERSONALITY TRAITS



- You can determine the procedure of your own work
- You pay attention to details
- You are physically fit



ENTRY PATHWAY

1. Complete Class 8
2. Earn six months of work experience
3. Enrol for National Skills Qualification Framework (NSQF)* Level-3 Certificate course (Hatchery Production Worker)

Please check the duration of the course during enrolment

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EDUCATIONAL PATHWAY

**These figures are indicative and subject to change*

The approx. income of an Aquaculture Worker ranges between **INR 8,000 - 47,000*** per month.

Source: <http://www.salaryexplorer.com/salary-survey.php?loc=100&loctype=1&job=29&jobtype=1>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Fish Farms

Entrepreneurship: You can start your own business.

Work Environment: It is a field job. You may be required to supervise other workers and helpers. Local travel is a part of the job profile. You are likely to work 9 hours daily for 6 days a week.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Aquaculture Worker → Fish Farm Supervisor → Fish Farm Manager

Search keywords...



aquaculture worker, fish farmer, aquaculture,

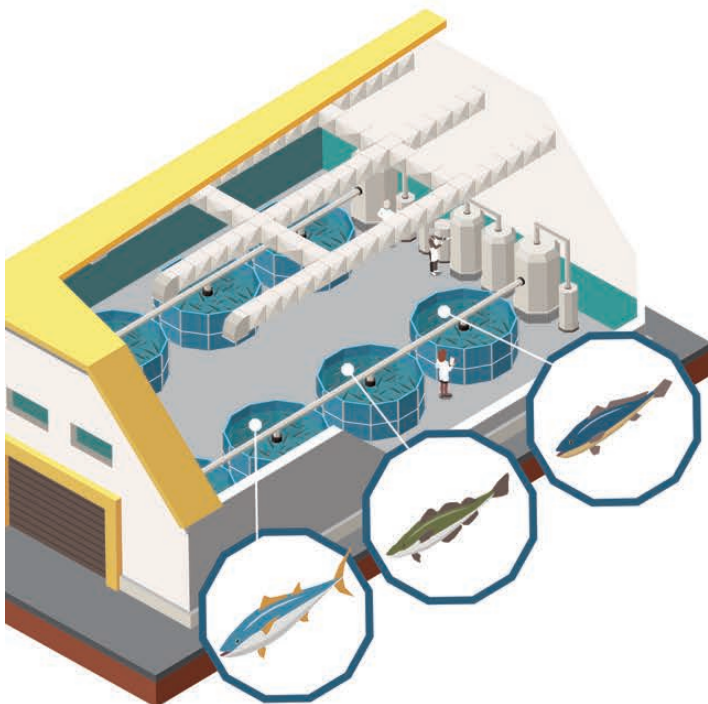
WHERE WILL YOU STUDY?

Government Institutes

1. Government Holkar Science College, Indore, Madhya Pradesh
2. Government College of Rajahmundry, Andhra Pradesh
3. Fisheries College and Research Institute, Thoothukudi, Tamil Nadu
4. College of Fisheries, Udaipur, Rajasthan

Private Institutes

1. Sacred Heart College, Kochi, Kerala
2. Centurion University of Technology and Management, Bhubaneswar, Odisha
3. Karim City College, Jamshedpur (Diploma)
4. Doon PG college of Agriculture Science and Technology, Dehradun



8

EXAMPLE FROM THE FIELD

Sabiruddin Gazi, a resident of South 24 Praganas in West Bengal, is an aquaculture worker since 2014. Earlier he earned a monthly remuneration of INR 15,000. Then he underwent the capacity-building training by the Agriculture Skill Council of India. He said "In my family there are five members. I took ponds on rent and started fishing; now I have 16 ponds. During the training, I learnt about fish feed and its importance, types of diseases associated with fish, and how to gain profit by using latest techniques during fishing."

Source: <https://ruralmarketing.in/stories/skilling-the-fishermen/>

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DAIRY FARMER/ENTREPRENEUR

A Dairy Farmer is responsible for overseeing the day-to-day management and care of dairy cows, so they produce the maximum quantity of milk. The individual ensures proper care of the animals, their health and productivity, milking and marketing of the produced milk.

PERSONALITY TRAITS

- You like to take care of animals
- You would like to start your own business
- You are good at planning and work according to the plan

ENTRY PATHWAY

Minimum Qualification

1. Complete Class 10
2. Earn one year of work experience
3. Enrol for National Skills Qualification Framework (NSQF)* level 3 Certificate course - Dairy Farmer/Entrepreneur

OR

Complete a Bachelor's degree (B.Tech/B.Sc) in Dairy Technology/ Animal Husbandry and Dairying

OR

Complete a Diploma in Dairy Technology

Please check the duration of the course during enrolment

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EDUCATIONAL PATHWAY

**These figures are taken from NCS and are indicative and subject to change*

The approx. income of a Dairy Farmer ranges between **INR 8,000 - 1,00,000*** per month.

Source: <https://bit.ly/3krcTGM>



A majority of government schemes are free



SCHOLARSHIPS

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- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Dairy Co-operative Organizations, Dairy Product Companies etc.

Entrepreneurship: You can start your own business.

Work Environment: It is a field job. You may have to handle a team of field workers. Part-time work and contractual jobs may be available. If you work for a co-operative or company, you are likely to work in a shift system.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Dairy Farmer/Entrepreneur → Dairy Supervisor → Dairy Manager → Dairy Owner

Search keywords...



dairy farmer, dairy farm, dairy farm manager

WHERE WILL YOU STUDY?

INSTITUTES

1. Indian Institute of Technology, Delhi
2. Indian Institute of Technology, Hyderabad, Telangana
3. West Bengal University of Animal and Fishery Sciences, Kolkata
4. Indian Institute of Technology, Guwahati, Assam
5. National Dairy Research Institute, Karnal, Haryana
6. College of Dairy Technology, Udgir, Maharashtra
7. College of Dairy Technology, Tirupati, Andhra Pradesh
8. Indira Gandhi Krishi Vishwavidhyalay, Raipur, Chhattishgarh

EXAMPLE FROM THE FIELD

Maheshbhai Mafatbhai Solanki of the Kheda district of Gujarat took the Agriculture Skill Council of India (ASCI) training in 2018 in a bid to build his capacity for Dairy Farming. Before joining the training, his annual net income was INR 74,880. But after completing the training, his annual net income increased to INR 3,52,320.*

Source: https://www.vigyanvarta.com/adminpanel/upload_doc/VV_0422_28.pdf

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DAIRY TECHNOLOGIST

A Dairy Technologist is a professional who is responsible for handling and management of milk, starting from production and processing right down to consumption. It includes processing, storage, packaging, transport and physical distribution. They design new, improved methods using the principles of bacteriology, chemistry, physics, engineering and economics to produce milk and milk products.

PERSONALITY TRAITS

- You have interest in plants and animals
- You like to analyze things (problems/situations).
- You pay attention to details
- You like to work in a team

SCHOLARSHIPS

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The approx. course fee ranges between **INR 20,000 - 2,50,000***

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

EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream (Physics, Chemistry and Mathematics)
2. Complete Bachelor's (B.Tech/B.Sc) in Dairy Technology or Food Technology

OR

Pursue a Diploma or certification course in Dairy Technology

For admissions, you must qualify JEE Mains and JEE Advanced or the entrance examination 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 Dairy Technologist - fresher ranges from **INR 15,000 - 25,000*** per month.

The approx. salary of a Dairy Technologist with some experience ranges between **INR 40,000 - 60,000*** per month.

Source: https://www.ambitionbox.com/profile/-dairy-technologist-salary_Sound_Engineer/Salary?loggedIn

WHERE WILL YOU WORK

Places of Work: Dairy farms, Dairy co-operatives, Rural banks, Milk product processing and manufacturing industries, Quality control departments, Colleges and universities

Work Environment: You will typically work in an office setting or laboratory. You are expected to work minimum 8 hours per day or more when needed. You will have to work in a team.

Opportunities for differently abled exist in this field

EXPECTED GROWTH PATH



Dairy Technologist → Shift Officers →
General Manager → Head of Dairy Unit

Search keywords...



dairy technologist, dairy researcher

WHERE WILL YOU STUDY?

This course is offered by the Department of Dairy or Food Technology.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Anand Agricultural University, Anand, Gujrat
2. Bihar Animal Sciences University, Patna, Bihar
3. Chandra Shekhar Azad University of Agriculture and Technology, Kanpur U.P.
4. West Bengal University of Animal and Fishery Sciences, Kolkata, West Bangal
5. College of Dairy and Food Science Technology, Udaipur, Rajasthan
6. National Dairy Research Institute, Karnal, Haryana
7. College of Dairy Technology, Udgir, Maharashtra
8. College of Dairy Technology, Tirupati, Andhra Pradesh

PRIVATE INSTITUTES

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

1. NIMS University, Jaipur, Rajasthan
2. Sheth MC College of Dairy Science, Anand, Gujarat
3. Parul Institute of Technology, Vadodara (Diploma), Gujarat
4. MVN University, Palwal, Haryana
5. Mansinhbhai Institute of Dairy and Food Technology, Mehsana, Gujrat
6. Centurion University of Technology and Management, Bhubaneshwar, Odisha
7. A.D Patel Institute of Technology, Anand, Gujrat
8. Pacific Institute of Dairy and Food Technology, Udaipur, Rajasthan

Information on the institute rankings can be found at -

www.nirfindia.org/2022/Ranking.html



EXAMPLE FROM THE FIELD

"Amul Cooperative" or "Amul Dairy Products", Amul is undoubtedly one of the most famous and successful dairy brands in India. Founded in 1946, Amul has had a major impact on the country's dairy industry, milk processing, distribution and dairy products. Amul's partnership model revolves around empowering dairy farmers, especially small and rural producers. By being a member of the cooperative, the farmers are related to the business and participate in their work. Partners provide farmers with expertise, training and support to increase milk production, improve milk quality and use modern milk systems. This support promotes cooperation between farmers and cooperatives.

Source : <https://medium.com/@kushagrasaxena261/case-study-on-amul-revolutionizing-indias-dairy-industry-8fb107db87f7>

FARMER: BACKYARD/SMALL POULTRY FARMER/ GOAT FARMER/PIGGERY/MARICULTURE/SERICULTURE/ BEE KEEPING

A Backyard/Small Poultry Farmer raises or cares for different types of domestic birds, as well as animals such as goats/pigs for the purpose of egg, milk and/or meat production. They could also be responsible for sericulture and managing bee colonies.

PERSONALITY TRAITS

- You have good communication skills
- You like to assemble things
- You have good analytical skills
- You are organised in your work



ENTRY PATHWAY

Minimum Qualification

After completing class 8 and being 18 years of age you can enrol for National Skills Qualification Framework (NSQF)* level 4 Backyard/Small Poultry Farmer/Goat farmer /Piggery/Sericulture/Sericulture/Beekeeping Training.

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade*



EDUCATIONAL PATHWAY

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Farmer :
Backyard/Small Poultry ranges between
INR 7,000 - 10,000* per month

Source - <https://bit.ly/3KBGszY>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Industries such as Goatery, poultry, piggery, mericulture, sericulture, bee-keeping units and so on.

Entrepreneurship: You can get contracts from wholesale vendors and sell your products to them directly.

Work Environment: You have to work for at least 8 to 9 hours and for 5 to 6 days a week. Shift duties may be there. Overtime is common.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Farmer → Farm Manager

Search keywords...



animal farming, farming jobs, agriculture

WHERE WILL YOU STUDY?

GOVERNMENT INSTITUTES

1. Indian Veterinary Research Institute, Izatnagar
2. National Dairy Research Institute, Karnal
3. College of Veterinary Science, Assam Agricultural University, Guwahati
4. Tamil Nadu Veterinary and Animal Sciences University, Chennai
5. Punjab Agricultural University (PAU), Ludhiana
6. Maharashtra Animal and Fishery Sciences University, Nagpur
7. Central Institute of Poultry Engineering and Technology, Hyderabad

EXAMPLE FROM THE FIELD



Yan Singh is a resident of Barmaadi village. His family was facing hardship as Yan Singh had met with a horrific accident and was completely unable to work as a daily wage labour for his livelihood. He showed a keen interest in the training scheme on agriculture and attended a 7 days training course in poultry farming at a Poultry Farm in Sundernagar (Mandi). He constructed a pukka (permanent) well ventilated shed with adequate lighting facilities with the initial financial help given by the Government. Yan then brought in chicks, birds and chicken feed, starting his own poultry farm. The income from poultry has encouraged Yan Singh to adopt poultry rearing as his profession in future. He wants to reinvest the profits and expand the farm operations. The successful execution of the scheme by Yan Singh has captured the attention of other resident families that were previously unaware of this profession.*

Source - manage.gov.in/cfa/successstories/

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



FISH AND SEA FOOD PROCESSOR

A Fish and Seafood Processor is responsible for processing fish and seafood for its preservation and human consumption. Processing entails heading, gutting, cleaning, filleting, canning, freezing, glazing, packaging, or otherwise preserving a seafood product.

PERSONALITY TRAITS

- You like to work in teams
- You pay attention to details
- You have good communication skills

ENTRY PATHWAY

Minimum Qualification

1. Complete Class 10
2. Enrol for National Skills Qualification Framework (NSQF)* level 2 Certificate course - (Fish and Sea food Processor)

OR

3. Complete 10+2 in Science stream (Physics, Chemistry and Biology)
4. Complete a Bachelor's degree (B.Sc) in Industrial Fish and Fisheries/ Fisheries Science or any related subject

Please check the duration of the course during enrolment

* NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience



EDUCATIONAL PATHWAY

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Fish and Sea Food Processing Technician at the entry level ranges between **INR 8,000 – 12,000*** per month.

Source: <https://bit.ly/3KEAVIS>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Fish and Seafood Processing units.

Work Environment: Part-time work and contractual jobs may be available. Factories and companies usually work 5 to 6 days a week and 8 to 9 hours every day. This may vary from company to company. Shift system may be available.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Worker → Fish and Seafood Processing Technician → Plant Supervisor → Plant Manager

Search keywords...



*fish and seafood processing technician,
fish and seafood processing specialist*

WHERE WILL YOU STUDY?

INSTITUTES

1. Central Institute of Fisheries Technology, Kochi
2. National Institute of Fisheries Post Harvest Technology and Engineering, Kochi
3. College of Fisheries, Mangalore
4. Tamil Nadu Fisheries University, Nagapattinam, Tamil Nadu
5. Central Marine Fisheries Research Institute, Kochi, Kerala
6. National Research Centre on Fishery Engineering, Chennai



EXAMPLE FROM THE FIELD

Domic Savio currently works as production manager at Taprobane Seafoods (Pvt) Ltd, Sri Lanka's leading seafood company. He did his Bachelor's degree in Zoology/Animal Biology from Loyola College, Chennai and a PG Diploma in Aquaculture and Management (Aquaculture) from Annamalai University. Savio started his career as a junior technician with the Auro Maritech Private Limited, a Nagapattinam-based wholesale trader in fish

Source: https://rocketreach.co/dominic-savio-email_199624163

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

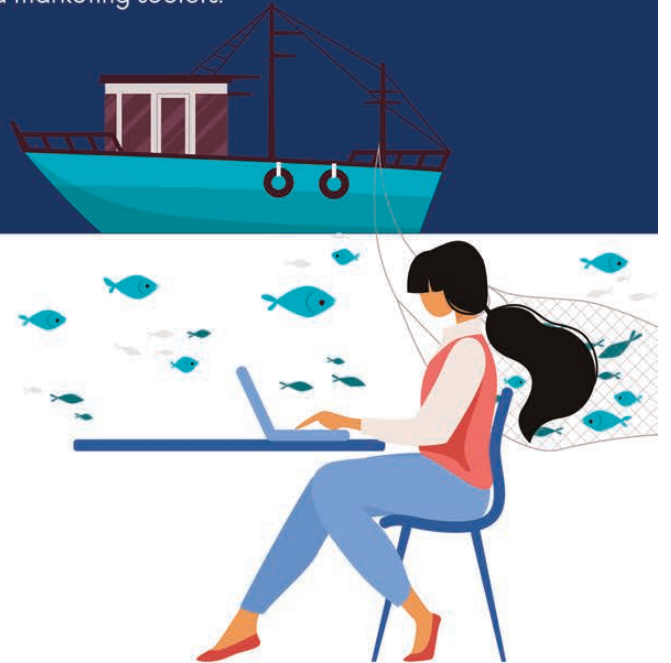
FISHERIES DEVELOPMENT OFFICER

The Fisheries Development Officer is responsible for starting, planning and implementing fishery development projects in a region. Their main role includes identifying and co-ordinating fishery development activities in the harvesting, processing and marketing sectors.

PERSONALITY TRAITS



- You like working outdoors
- You like to analyze and solve a problem
- You enjoy Science
- You like to work in a team



The approx. course fee ranges between **INR 5,640-4,00,000***.

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in Under this portal there are central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes

- Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI.
- Scholarships are also available in the Institutes based on merit*
*(Availability of these scholarships can 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).

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

- All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream with Physics, Chemistry and Biology
 2. Complete Bachelor's degree (B.Sc.) in Industrial Fish and Fisheries/Zoology/Fisheries
- OR**
- Complete Bachelor's degree (B.F.Sc.), followed by M.F.Sc. in Aquaculture/Fish Processing/Fisheries Extension/Fisheries Hydrography
- OR**
- Complete Diploma in Aquaculture Management
- For admissions, you have to qualify B.F.Sc. entrance exams conducted by each state.

Please check the duration of the course during enrolment



EXPECTED INCOME

**These figures are indicative and subject to change*

The approx. salary of a Fisheries Development Officer ranges between **INR 42,360-60,000*** per month.

Source: <https://www.salaryexpert.com/salary/job/conservation-and-fishery-officer/india>

WHERE WILL YOU WORK?

Places of Work: You can work in central labs, fish processing industries, aquaculture farms, aquaculture hatcheries and so on

Work Environment: The work timings are typically 5 to 6 days a week for 7 to 8 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Fieldman → Fish Overseer → Fisheries Officer → Fisheries Development Officer

WHERE WILL YOU STUDY?

This course is offered by the department of Fishery Sciences.
This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Government Holkar Science College, Indore, Madhya Pradesh
2. Government College of Rajahmundry, Andhra Pradesh
3. Fisheries College and Research Institute, Thoothukudi, Tamil Nadu
4. Dr MGR Fisheries College and Research Institute, Ponneri, Tamil Nadu
5. Ramdayalu Singh College, Muzaffarpur, Bihar
6. Government Degree College Boys, Baramulla, Jammu and Kashmir
7. College of Fisheries, Agartala, Tripura
8. College of Fisheries, Dholi, Bihar
9. College of Fisheries, Udaipur, Rajasthan

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Sacred Heart College, Kochi, Kerala
2. Centurion University of Technology and Management, Bhubaneswar, Odisha
3. St Alberts College, Ernakulam, Kerala
4. The Muslim Educational Society Asmabi College, Thrissur, Kerala
5. Karim City College, Jamshedpur (Diploma), Jharkhand
6. Doon PG college of Agriculture Science and Technology, Dehradun, Uttarakhand
7. Phonics Group of Institutions, Roorkee, Uttarakhand
8. Jawahar Bharati Degree and PG College, Kavali (Diploma), Andhra Pradesh

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)

Search keywords...



fisheries officer, fisheries development officer, fishery jobs

FISHERIES EXTENSION OFFICER

A Fisheries Extension Officer persuades and empowers fishing communities to improve their quality of life by suggesting improvements in their farming practices resulting in increased fish production and income.

PERSONALITY TRAITS

- You like to analyse problems/ situations
- You are comfortable working in groups
- You like working outdoors
- You pay attention to details



The approx. course fee ranges between **INR 5,640-4,00,000***.

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Biology)
2. Complete Bachelor's degree (B.Sc.) in Industrial Fish and Fisheries/Zoology/Chemistry/Fisheries, followed by a Diploma in Aquaculture Management/Fisheries Extension
OR
Complete Bachelor's degree (B.F.Sc.) in Fisheries Science, followed by Master's degree (M.F.Sc) in Fish Processing/Fisheries Extension/Fisheries Hydrography

For admissions, you have to clear entrance exams which are conducted by each state

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Fisheries Extension Officer ranges between **INR 9,300-34,800*** per month.

Source: <https://bit.ly/3IVSOSN>

WHERE WILL YOU WORK?

Places of Work: Central labs, Fish processing industries, Aquaculture farms, Aquaculture hatcheries and so on.

Work Environment: The work timings are typically 5 to 6 days a week for 7 to 8 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Fieldman → Fish Overseer → Fisheries Extension Officer

WHERE WILL YOU STUDY?

This course is offered by the department of Fishery Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Government Holkar Science College, Indore
2. Government College of Rajahmundry
3. Fisheries College and Research Institute, Thoothukudi
4. Dr MGR Fisheries College and Research Institute, Ponneri
5. Ramdayalu Singh College, Muzaffarpur
6. Government Degree College Boys, Baramulla
7. College of Fisheries, Agartala
8. College of Fisheries, Dholi
9. College of Fisheries, Udaipur

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Sacred Heart College, Kochi, Kerala
2. Centurion University of Technology and Management, Bhubaneswar, Odisha
3. St Alberts College, Ernakulam, Kerala
4. MES Asmabi College, Thrissur, Kerala
5. Karim City College, Jamshedpur (Diploma), Jharkhand
6. Doon PG college of Agriculture Science and Technology, Dehradun, Uttarakhand
7. Phonics Group of Institutions, Roorkee
8. Jawahar Bharati Degree and PG College, Kavali (Diploma), Andhra Pradesh

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)

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

Search keywords...



fish farmer, fisheries extension officer, fisheries officer

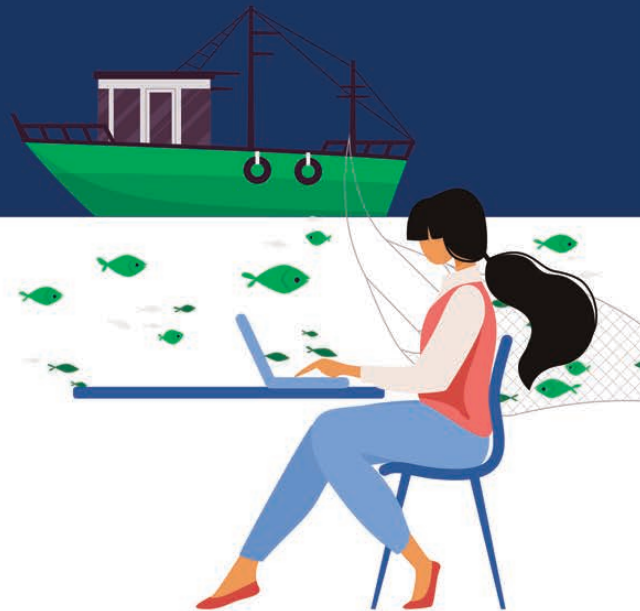
FISHERIES OFFICER

A fisheries officer investigates, detects, and prevents the pollution of waters to protect the aquatic environment. A fisheries officer also looks after the general development of inland fisheries and reservoir fisheries.

PERSONALITY TRAITS



- You like to analyse problems/ situations
- You like Science
- You like working outdoors
- You pay attention to details



The approx. course fee ranges between **INR 5,640-4,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

- All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Biology)
 2. Complete Bachelor's degree (B.Sc.) in Industrial Fish and Fisheries/Zoology/Chemistry/Fisheries, followed by a Diploma in Aquaculture Management
- OR
- Complete Bachelor's degree (B.F.Sc) in Fisheries Science, followed by an M.F.Sc in Aquaculture/Fish Processing/Fisheries Extension/Fisheries Hydrography
- For admissions, you have to clear B.F.Sc entrance exams which are conducted by each state

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Fisheries Officer ranges between **INR 34,250-54,250*** per month.

Source: <https://www.fao.org/fsnforum/member/carlos-fuentevilla>

WHERE WILL YOU WORK?

Places of Work: You can work in government aquaculture farms, central labs, fish processing industries, aquaculture farms, aquaculture hatcheries and so on*

Work Environment: The work timings are typically 5 to 6 days a week for 7 to 8 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Fieldman → Fish Overseer → Fisheries Officer

WHERE WILL YOU STUDY?

This course is offered by the department of Fishery Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Asutosh College, Kolkata
2. Government Holkar Science College, Indore
3. Government College of Rajahmundry
4. Fisheries College and Research Institute, Thoothukudi
5. Dr MGR Fisheries College and Research Institute, Ponneri
6. Ramdayalu Singh College, Muzaffarpur
7. Government Degree College Boys, Baramulla
8. College of Fisheries, Agartala
9. College of Fisheries, Dholi
10. College of Fisheries, Udaipur

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Sacred Heart College, Kochi
2. Centurion University of Technology and Management, Bhubaneswar
3. St Alberts College, Ernakulam
4. MES Asmabi College, Thrissur
5. Karim City College, Jamshedpur (Diploma)
6. Doon PG college of Agriculture Science and Technology, Dehradun
7. Phonics Group of Institutions, Roorkee
8. Jawahar Bharati Degree and PG College, Kavali (Diploma)

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

DISTANCE LEARNING INSTITUTES

Indira Gandhi National Open University (IGNOU)

Search keywords...



fisheries inspector, fisheries officer, fisheries sub-inspector

EXAMPLE FROM THE FIELD

Mr. Carlos Fuentevilla is a fisheries officer with the Food and Agriculture Organization of the United Nations. Fuentevilla has done his B.A. in Marine Affairs and Political Science from the University of Miami and his M.A. in Marine Affairs and Policy from Rosenstiel School of Marine and Atmospheric Science, Miami. He is currently working as a Secretariat member for Voluntary Guidelines for Securing Sustainable Small-Scale Fisheries in the context of food security and poverty eradication.*

Source : <https://www.fao.org/fsnforum/member/carlos-fuentevilla>

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

FISHERY TECHNICIAN / AQUACULTURE TECHNICIAN

Aquaculture technicians are responsible for stocking, caring for, and harvesting fish. They are mainly concerned with maintaining ideal conditions for production and maintenance of fishes and other aquatic organisms.

PERSONALITY TRAITS

- You like to analyse problems/situations
- You are comfortable working in groups
- You like working outdoors
- You pay attention to details



The approx. course fee ranges between **INR 5,640-4,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in Under this portal there are central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes

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• Scholarships are also available in the Institutes based on merit*
*(Availability of these scholarships can 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).

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry and Biology)
 2. Complete Bachelor's degree (B.Sc.) in Industrial Fish and Fisheries/Zoology/Chemistry/Fisheries, followed by a Diploma in Aquaculture Management/Fish Products Technology (DFPT) OR Complete Bachelor's degree (B.F.Sc) in Fisheries Science, followed by an M.F.Sc in Aquaculture/Fish Processing/Fisheries Extension/Fisheries Hydrography
- For admissions, you have to clear B.F.Sc. entrance exams which are conducted by each state.

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Fisheries Technician ranges between **INR 33,334-54,000*** per month.

Source: <https://www.salaryexpert.com/salary/job/fisheries-technician/india>

WHERE WILL YOU WORK?

Places of Work: You can work in central labs, fish processing industries, aquaculture farms, aquaculture hatcheries and so on

Work Environment: The work timings are typically 5 to 6 days a week for 7 to 8 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Laboratory Technician → Assistant Technician → Fisheries Technician → Senior Fisheries Technician

WHERE WILL YOU STUDY?

This course is offered by the department of Fishery Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Asutosh College, Kolkata
2. Government Holkar Science College, Indore
3. Government College of Rajahmundry
4. Fisheries College and Research Institute, Thoothukudi
5. Dr MGR Fisheries College and Research Institute, Ponneri
6. Ramdayalu Singh College, Muzaffarpur
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8. College of Fisheries, Agartala
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PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Sacred Heart College, Kochi
2. Centurion University of Technology and Management, Bhubaneswar
3. St Alberts College, Ernakulam
4. MES Asmabi College, Thrissur
5. Karim City College, Jamshedpur (Diploma)
6. Doon PG college of Agriculture Science and Technology, Dehradun
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8. Jawahar Bharati Degree and PG College, Kavali (Diploma)

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

DISTANCE LEARNING INSTITUTES

Indira Gandhi National Open University (IGNOU)

Search keywords...



department of fisheries, fishery jobs in india, fishery survey of india

EXAMPLE FROM THE FIELD

Theo Johns is an Aquaculture Technician with the National Lobster Hatchery, UK. He studied Physics, Chemistry, Human Biology and Maths and then decided to go for a broad Science degree, studying Environmental Science. He was then subsequently trained in Aquaculture at the National Lobster Hatchery. He has helped re-establish the hatchery in Newlyn as it was closed for several years due to lack of funding.*

Source: <https://www.technicians.org.uk/stories/theo-johns/?fbclid=I-wAR0a52fOL7lvEJq5E378V-toTEdWMDtMMxq0EwgiMEbdDi3OmRr1AoCmVgc>

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FLORIST

A florist is a professional who specializes in the selection and arrangement of flowers for the purpose of decoration. The person also packs and ships them using delivery services.

PERSONALITY TRAITS



- You have an artistic bent of mind
- You like gardening
- You would like to start your own business



EDUCATIONAL PATHWAY

Minimum Qualification

1. Complete 10+2 in any stream
2. Enrol for National Skills Qualification Framework (NSQF)* level 3 Certificate course – Florist

Please check the duration of the course during enrolment

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. income of a Florist ranges between **INR 32,000 - 54,040*** per month.

Source: <https://www.salaryexpert.com/salary/job/florist/india>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Flower and Gift Shops and Boutiques, Flower Import-Export Companies, Floral Decoration Services etc.

Entrepreneurship: You can start your own business.

Work Environment: If you are working for an employer you are likely to work in a studio or an open space. You are likely to work in a team. Shops usually are open 6 days a week, so you are likely to work 6 days a week 9 to 10 hours a day.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Farmer → Florist → Business Owner

OR

Florist → Senior Florist → Trainer → Floor Manager/Supervisor

Search keywords...



florist, wedding planner, senior florist

WHERE WILL YOU STUDY?

INSTITUTES

1. Indian Agricultural Research Institute, New Delhi
2. Central Institute of Horticulture, Medziphema, Nagaland
3. National Horticultural Research and Development Foundation, New Delhi
4. College of Horticulture, Kerala Agricultural University, Thrissur, Kerala
5. Punjab Agricultural University, Ludhiana, Punjab



26

EXAMPLE FROM THE FIELD



Barabanki's Moinuddin is a florist whose annual turnover is over 50 lakh. He has an area of 20 acres at Dafedar Purwa village where he grows his 'gerberas' and 'gladiolus'. He also plants banana on the sidelines of the field. Moinuddin is a law graduate and was working a decent job but following the death of his father, the responsibility of running the home fell to him. Despite being discouraged by family members he decided to cultivate flowers and today he earns more than 7 lakhs per month. He export around 25,000 flowers per day to not only Lucknow but also cities like Delhi, Mumbai and Gujarat and even exports to Dubai and Sharjah in United Arab Emirates.

Source: <https://www.imphaltimes.com/it-articles/itemlist/date/2018/9/28&format=feed&Itemid=940&type=rss>

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HORTICULTURIST

A Horticulturist's primary role is the care, maintenance, cultivation propagation of plants. They apply their expertise to fruits, vegetables, ornamentals, and non-food crops to maximize their health or growth. They may also design landscapes or manage golf courses and sports turf.

PERSONALITY TRAITS



- You have an interest in Science
- You like working outdoors
- You pay attention to details
- You like to analyse problems/situations



The approx. course fee ranges between **INR 6,000 - 8,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

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**(Availability of these scholarships can vary from time to time)*

LOANS

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• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Biology)
2. Complete a Bachelor's degree (B.Sc.) in Agriculture/Horticulture

OR

Complete a Diploma in Horticulture

OR

Complete a Bachelor's degree followed by a Master's degree (M.Sc.) and Ph.D. in the same or allied subject

Please check the duration of the course during enrolment



EXPECTED INCOME

**These figures are indicative and subject to change*

The approx. salary of a Horticulturist ranges between **INR 11,000-85,000*** per month

Source: <https://www.payscale.com/research/IN/Job=Horticulturist/Salary>

WHERE WILL YOU WORK?

Places of Work: Agriculture Co-operative Organizations, Government Research Institutes, Private Research Companies, Botanical gardens, Nurseries, Greenhouses

Entrepreneurship: You can start your own business

Work Environment: If you were to work for an organization, you are likely to work both indoor and outdoor. You might have to work in a team. You are likely to have regular work hours. Organizations usually work for 5 to 6 days a week and 9 to 10 hours every day. This may vary from organization to organization. Shift system may be available

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Junior Horticulturist → Horticulturist → Senior Horticulturist → Head of Operations

Search keywords...



horticulture, floriculturist, olericulturist

WHERE WILL YOU STUDY?

This course is offered by the Department of Agricultural Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Assam Agricultural University, Jorhat, Assam
2. Aligarh Muslim University, Aligarh, Uttar Pradesh
3. Annamalai University, Chidambaram, Tamil Nadu
4. Babasaheb Bhimrao Ambedkar University, Lucknow, Uttar Pradesh
5. Bidhan Chandra Krishi Vishwavidyalaya, Nadia, West Bengal
6. Banaras Hindu University, Varanasi
7. Bundelkhand University, Jhansi, Uttar Pradesh
8. University of Calcutta, Kolkata, West Bengal

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Centurion University of Technology Management (CUTM), Paralakhemundi, Odisha
2. Jaipur National University, Jaipur, Rajasthan
3. North East Frontier Technical University, Aalo, Arunachal Pradesh
4. Shri Ramaswanam Memorial (SRM) Institute of Science and Technology, Chengalpattu, Tamil Nadu
5. Sri Sri University, Cuttack, Odisha
6. Amity University, Noida, Uttar Pradesh
7. Arunachal University of Studies, Namsai, Arunachal Pradesh
8. Bhagwant University, Ajmer, Rajasthan

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)

EXAMPLE FROM THE FIELD

Durga Prasad Patel is from Damoh, Madhya Pradesh. He has done his B.Sc and M.Sc in Agriculture and Horticulture, respectively. After completing his education, Patel started working with the HDFC bank as a Rural Sales Executive, after which he moved to Baran district in Rajasthan to work with the "Wadi" Project (Funded by NABARD). The project aims at promoting sustainable livelihoods for tribal communities and enhancing their income security. He currently resides in Baran.*

Source: <https://stories.workmob.com/durga-prasad-patel-agriculture>

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

HYDROPONICS TECHNICIAN

Hydroponics is the technique of growing plants using a water-based nutrient solution rather than soil, and can include a growing media, such as vermiculite, coconut coir, or perlite. A Hydroponics Technician grows plants using the hydroponics farming method. The individual is also responsible for setting and maintaining a hydroponic farm apart from maintaining, harvesting and marketing the plants grown at the farm.

PERSONALITY TRAITS



- You enjoy Science
- You like gardening
- You would like to start your own business



EDUCATIONAL PATHWAY

Minimum Qualification

1. Complete 10+2 in any stream

OR

Earn two years of work experience

OR

Complete Class 10 followed by an ITI course (Engineering or Non-Engineering)

2. Enrol for National Skills Qualification Framework (NSQF)* level 3 Certificate course - Hydroponics Technician

OR

Complete a Bachelor's in Agriculture/Plant Science/Horticulture

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EXPECTED INCOME

**These figures indicative and subject to change*

The approx. income of a Hydroponic Technician ranges between **INR 35,000 - 57,000*** per month.

Source: <https://www.salaryexpert.com/salary/job/hydroponics-technician/india/kolkata>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Agritech Startups, Government Agriculture Department, Agriculture Companies, Greenhouse and others.

Entrepreneurship: You can start your own business.

Work Environment: It is not a desk job. You will not head a team. Local travel is a part of the job. Part-time work and contractual jobs may be available. You are likely to work 9 hours every day 6 days a week. Overtime may be required. Shift system may be available.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Assistant Technician → Hydroponic Technician/Farmer → Owner of Business

Search keywords...



vertical farming, hydroponics technician, hydroponic farm manager

WHERE WILL YOU STUDY?

INSTITUTES

1. Indian Agricultural Research Institute, New Delhi
2. National Institute of Agricultural Extension Management, Hyderabad, Telangana
3. National Institute of Agricultural Marketing Jaipur, Rajasthan
4. Dr. Yashwant Singh Parmar University of Horticulture and Forestry Solan, Himachal Pradesh
5. Sher-e-Kashmir University of Agricultural Sciences and Technology, Srinagar, Jammu & Kashmir



EXAMPLE FROM THE FIELD

Twenty-year-old **Kajal** is an IGNOU first-year B.Sc (Zoology) student. She took the course on hydroponics at the Hydroponics Horticulture Training Facility, Delhi provided by the government. She said she took the training because she wanted to establish her own business. "My father works at a private factory, and I come from a humble background. Right now, there are very few persons in the market who can meet the increased demand for exotic veggies and organic products," the Paharganj resident, said.

Source: <https://krishijagran.com/agriculture-world/hydroponic-farming-government-is-providing-special-training-to-women/>

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

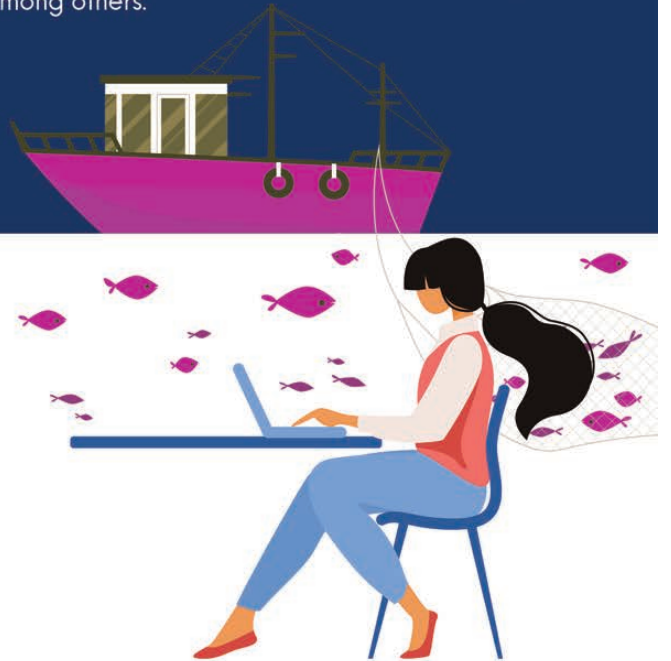
PISCICULTURIST

A Pisciculturist specializes in fish culture. Their responsibilities include directing activities connected with development of fisheries, assisting in breeding and rearing of fish by artificial methods, conducting research concerning their habits, migration, growth, food, enemies, places of breeding and spawning and supervising activities of fish preservation or marketing among others.

PERSONALITY TRAITS



- You like working outdoors
- You like to analyze and solve problems
- You enjoy Science
- You like to work in a team



The approx. course fee ranges between **INR 5,640-4,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in Under this portal there are central government schemes offered by different departments, UGC/AICTE Schemes and State Schemes

- Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI.
- Scholarships are also available in the Institutes based on merit*
- * (Availability of these scholarships can 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).

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

- All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10+2 in Science stream with Physics, Chemistry and Biology
2. Complete Bachelor's degree (B.Sc.) in Industrial Fish and Fisheries/Zoology/Fisheries OR Complete Bachelor's degree (B.F.Sc.), followed by M.F.Sc. in Aquaculture/Fish Processing/Fisheries Extension/Fisheries Hydrography OR Complete Diploma in Aquaculture Management/Fish Products Technology

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Pisciculturist ranges between **INR 15,500-43,000*** per month.

Source - <https://bit.ly/3GesUqc>

WHERE WILL YOU WORK?

Places of Work: You can work in central labs, with fish processing industries, with aquaculture farms or aquaculture hatcheries and so on*

Work Environment: The work timings are typically 5 to 6 days a week for 7 to 8 hours per day. Shift system is applicable.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Supporting Staff → Fisheries Inspectors
→ Pisciculturist Fisheries Development
Officer/Fisheries Project Officer
→ Assistant Director Fisheries → Deputy
Director → Fisheries Director

WHERE WILL YOU STUDY?

This course is offered by the department of Fishery Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Asutosh College, Kolkata, West Bengal
2. Government Holkar Science College, Indore, Madhya Pradesh
3. Government College of Rajahmundry, Andhra Pradesh
4. Fisheries College and Research Institute, Thoothukudi, Tamil Nadu
5. Dr Maruthur Gopalan Ramachandran (MGR) Fisheries College and Research Institute, Ponneri, Tamil Nadu
6. Ramdayalu Singh College, Muzaffarpur, Bihar
7. Government Degree College Boys, Baramulla J&K
8. College of Fisheries, Agartala, Tripura
9. College of Fisheries, Dholi, Bihar
10. College of Fisheries, Udaipur, Rajasthan

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and ICAR before applying)

1. Sacred Heart College, Kochi, Kerala
2. Centurion University of Technology and Management, Bhubaneswar, Odisha
3. St Alberts College, Ernakulam, Kerala
4. Muslim Educational Society (MES), Asmabi College, Thrissur, Kerala
5. Karim City College, Jamshedpur (Diploma), Jharkhand
6. Doon PG college of Agriculture Science and Technology, Dehradun, Uttarakhand
7. Phonics Group of Institutions, Roorkee, Uttarakhand
8. Jawahar Bharati Degree and PG College, Kavali (Diploma), Andhra Pradesh

Search keywords... 

fish scientist, fish technologist, pisciculturist

EXAMPLE FROM THE FIELD

Dr. Pramoda Kumar Sahoo is appointed as Director, ICAR-Central Institute of Freshwater Aquaculture, Kausalyaganga. Dr. Sahoo worked as a Principal Scientist at the same institute. He has also been bestowed with the prestigious ICAR National Professor Award by the Indian Council of Agricultural Research, New Delhi. Dr. Sahoo, a world renowned researcher, has been working in the area of fish health management for past three decades.*

Source: <https://orissadiary.com/dr-pramoda-kumar-sahoo-appointed-as-director-of-icar-cifa/>

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

SEED TECHNOLOGIST

A Seed Technologist deals with the methods of improving physical and genetic characteristics of seed. Seed technology involves activities such as variety development, evolution and release of seed varieties, seed production, processing, certification and storage.

PERSONALITY TRAITS

- You have an interest in Science
- You find pleasure in creating new things
- You have excellent analytical skills
- You like to work in teams



The approx. course fee ranges between **INR 15,000 - 2,25,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

• Scholarships are also available in the institutes based on merit*
*(Availability of these scholarships can 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), Ministry of Education and Indian Banks Association (IBA)

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Biology)
2. Complete Bachelor's degree (BSc) in Agriculture/Biotechnology/Life Sciences/Biology or any other related subject

OR

Complete Bachelor's degree followed by a Master's degree (MSc) in Seed Science and Technology

For admissions into Seed Science and Technology course, you may have to clear entrance examinations like ICAR AIEEA, GATE, OUAT CUET, NPAT, GSAT, AGRICET

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Seed Technologist is **INR 67,700-2,08,700*** per month.

Source: <http://nsrtc.nic.in/Recruit/Recruitment.pdf>

WHERE WILL YOU WORK?

Places of Work: Horticulture Industry, Nurseries, Plant Breeding Centers, Research Labs and others.

Work Environment: You will work in an office set up. Local travel is part of the job profile. You will not handle a team. You are likely to work 5 to 6 days a week, 8 to 9 hours every day

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Seed/Crop System Specialist →
Seed/Crop Inspector

Search keywords...



seed technologist, seed scientist, agricultural scientist

WHERE WILL YOU STUDY?

This course is offered by the Department of Agricultural Sciences.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Banaras Hindu University, Varanasi, Uttar Pradesh
2. Uttaranchal University, Dehradun, Uttarakhand
3. Maharana Pratap University of Agriculture and Technology, Udaipur, Rajasthan
4. Bidhan Chandra Krishi Viswa Vidyalaya, Nadia, West Bengal
5. Indian Agricultural Research Institute, New Delhi
6. Pandit Jawaharlal Nehru College of Agriculture & Research Institute, Puducherry
7. Swami Sarvanand Institute of Management and Technology, Dinanagar, Punjab
8. Doon College of Agriculture Science and Technology, Dehradun, Uttarakhand

PRIVATE INSTITUTES

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

1. Rasoni Group of Institutions, Nagpur
2. Sam Higginbottom University of Agriculture, Technology and Sciences, Prayagraj
3. Mata Gujri College, Fatehgarh Sahib, Punjab
4. Maharani's Science College for Women, Mysuru, Karnataka
5. Stani Memorial College of Engineering and Technology, Jaipur, Rajasthan
6. Sapphire Group of Institutions, Indore, Madhya Pradesh
7. Chanakya Mahavidyalaya, Bhopal, Madhya Pradesh
8. Amity University, Noida, Uttar Pradesh

Information on the institute rankings can be found at - <https://www.nirfindia.org/Rankings/2023/Ranking.html>

EXAMPLE FROM THE FIELD



Badrinarayan Ramulal Barwale, known as the father of seed technology in India, has pioneered in producing cheaper and better-quality seeds. He started with ladies' fingers to increase yield of the vegetable in Maharashtra. In 1998, he received the World Food Prize.*

Source: <https://indianexpress.com/article/india/b-r-barwale-1931-2017-the-engine-oil-dealer-who-fathered-india-seed-industry-4779620/>

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

SHRIMP FARMER

A shrimp farm is an aquaculture business for the cultivation of marine shrimp or prawns for human consumption. A Shrimp Farmer performs various activities such as selecting the shrimp species to be cultured, setting up the shrimp farm, procuring, stocking and maintaining the shrimp seeds and harvesting and marketing them as well.

PERSONALITY TRAITS



- You are good at planning and then working according to the plan
- You pay attention to details
- You are physically fit

EDUCATIONAL PATHWAY

Minimum Qualification

1. Complete Class 10
2. Earn six months of work experience followed by National Skills Qualification Framework (NSQF)* level 4 Certificate course – Freshwater Aquaculture Farmer/Mariculture Farmer/Brackish Water Aquaculture Farmer

OR
Earn 2 years of work experience followed by National Skills Qualification Framework (NSQF)* level 3 Certificate course – Aquaculture Worker/Hatchery Production Worker

OR
Complete a Bachelor's degree (B.Tech/BSc) in Aquaculture/Fisheries Science

Please check the duration of the course during enrolment

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. income of a Shrimp Farmer ranges between **INR 8,000 - 33,334*** per month.

Source: <https://www.hindustantimes.com/cities/chandigarh-news/shrinking-demand-crimps-shrimp-farmers-profits-in-punjab-101669564780437.html>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Shrimp Farms, Agriculture Co-operative Organization, Seafood Companies etc.

Entrepreneurship: You can start your own business.

Work Environment: It is a field job. Local travel is a part of this job role. Part-time jobs may be available at some farms. You are likely to have flexible work hours.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Shrimp Farmer → Shrimp Farm Supervisor
→ Shrimp Farm Manager → Farm Owner

Search keywords...

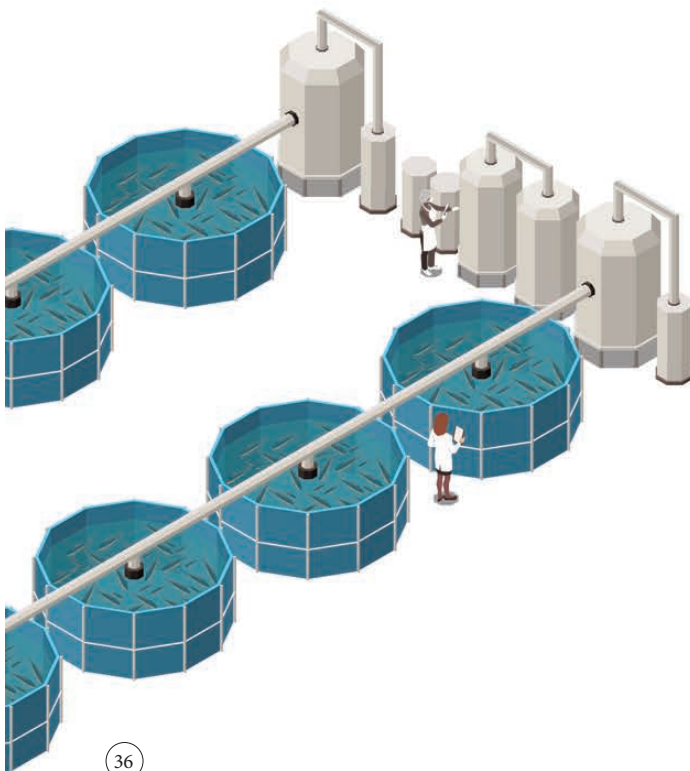


shrimp farm workers, shrimp breeders, shrimp farmer

WHERE WILL YOU STUDY?

INSTITUTES

1. Central Institute of Brackishwater Aquaculture, Chennai
2. National Institute of Oceanography, Panji, Goa
3. Fishery College & Research Institute, Thoothukudi, Tamil Nadu
4. College of Fisheries, Karnataka Veterinary, Animal, and Fisheries Sciences University, Mangaluru, Karnataka
5. Central Institute of Fisheries Education, Mumbai
6. Andhra Pradesh Fisheries University, Mangalagiri, Andhra Pradesh
7. Department of Fisheries, Kerala Agricultural University, Thrissur, Kerala



EXAMPLE FROM THE FIELD

Raj Pal is a Shrimp Farmer who resides in Jhajjar district of Haryana. Pal has studied till Class 10. In 2017, he started shrimp culture in his own land at Birohar and produced 7.7 tonne shrimp. After taking help from the government, he harvested 8.8 tonne shrimp in November 2020.

Source: http://harfish.gov.in/sites/default/files/success%20story_2.pdf

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

SOIL SCIENTIST

Soil science is the study of soil, which is the loose surface material that covers most land. Soil scientists study, analyse, and recommend appropriate land use to increase productivity of the soil. This is of great significance because soil health affects plant or crop growth, which in turn is linked to food security.

PERSONALITY TRAITS



- You have an interest in Science
- You like working outdoors
- You like to do experiments
- You have a keen sense of observation



The approx. course fee ranges between **INR 7,000 - 4,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

• Scholarships are also available in the institutes based on merit*
**(Availability of these scholarships can 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)

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete B.Sc. Agriculture Followed by M.Sc. Agriculture Specialization in Soil Science & Agriculture Chemistry

Please check the duration of the course during enrolment



EXPECTED INCOME

The figures are indicative & subject to change

The approx. salary of a Soil Scientist ranges between **INR 68,300 - 1,18,564*** per month.

Source: <https://www.salaryexpert.com/salary/job/soil-scientist/india>

WHERE WILL YOU WORK?

Places of Work: Agriculture Co-operative Organizations, NGOs, Public and Private Organisations, Environment Consultancies, Research Establishments, Commercial and Industrial Enterprises and Institutes of Higher Education among others

Work Environment: It is not a desk job and you are likely to work outdoors. You are likely to head a team. You will be working for 8 to 9 hours every day 5 to 6 days a week

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Soil Scientist → Senior Soil Scientist → Head of Research Operation

Search keywords...



soil scientist, soil science

WHERE WILL YOU STUDY?

This course is offered by the Department of Agriculture.

This list of institutes is indicative only

GOVERNMENT INSTITUTES

1. Presidency College, Chennai, Tamil Nadu
2. St Xavier's College, Ahmedabad, Gujrat
3. Hindu College, Delhi
4. Government Arts College, Coimbatore, Tamil Nadu
5. Farook College, Kozhikode, Kerala
6. St Stephens College, Delhi
7. Hansraj College, Delhi
8. Maharaja's College, Ernakulam, Kerala

PRIVATE INSTITUTES

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

1. Loyola College, Chennai, Tamil Nadu
2. Fergusson College, Pune, Maharashtra
3. Mount Carmel College, Bangalore, Karnataka
4. Peelame Sakthivel Gounder (PSG) College of Arts and Science, Coimbatore, Tamil Nadu
5. St Xavier's College, Kolkata, West Bengal
6. Ramanarain Ruia College, Mumbai, Maharashtra
7. Mar Ivanios College, Nalanchira, Kerala
8. Sir Parashurambhau College, Pune, Maharashtra



EXAMPLE FROM THE FIELD

Ashok Patra is the Director of Indian Institute of Soil Science. He did his Bachelor's in Agriculture from Banaras Hindu University and his Master's in Soil Science and Agricultural Chemistry from Indian Agricultural Research Institute. In December, 2022, he received the Glinka World Soil Prize 2022 for his 33-year dedicated career in soil science.*

Source: <https://icar.org.in/content/dr-ashok-kumar-patra-award-ed-glinka-world-soil-prize-2022>

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

TEA PLANTATION MANAGER

A Tea Estate/ Plantation Manager supervises and controls the overall operations of the tea estate. They are responsible for the coordination of activities from the initial plantation process of tea plants to the final storage of leaves in warehouses.

PERSONALITY TRAITS



- You like to lead
- You like working outdoors
- You like to solve problems/situations
- You are comfortable communicating with others



The approx. course fee ranges between **15,000 - 1,00,000***

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

• Scholarships are also available in the institutes based on merit*

**(Availability of these scholarships can 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)

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans



EDUCATIONAL PATHWAY

1. Complete 10 + 2 in the Science stream (Physics, Chemistry, Biology)

2. Complete a Bachelor's degree (BSc) in Botany/Horticulture/Agricultural Sciences/Tea Husbandry and Technology

OR

Complete a Bachelor's degree (B.Sc.) followed by a Master's degree (M.Sc.) in the same or related field

OR

Pursue a Diploma course in Tea Management

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Tea plantation Manager ranges between **INR 1,00,000 - 1,12,000*** per month.

Source:

WHERE WILL YOU WORK?

Places of Work: Tea Plantations

Work Environment: You have to work for at least 8 to 9 hours and for 5 to 6 days a week. Shift duties may be there. Overtime is common.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Plantation Worker → Supervisor, Plantation → Manager, Plantation → General Manager, Plantation → Plantation

Search keywords... 

tea garden manager, tea plantation manager, tea manager

WHERE WILL YOU STUDY?

The course is offered by the Department of Science/ Management.

This list of Institutes is indicative only

GOVERNMENT INSTITUTES

1. Indian Institute of Plantation Management, Bangalore
2. University of North Bengal, Darjeeling
3. Assam Agricultural University
4. Tocklai Tea Research Institute
5. Uttar Banga Krishi Vishwa Vidyalaya, West Bengal

PRIVATE INSTITUTES

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

1. Darjeeling Tea Research And Management Association - [DTRMA], Darjeeling
2. Birla Institute of Management & Futuristic Studies, Kolkata
3. Dipras Institute of Professional Studies, Kolkata
4. The Tea Tasters Academy

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



EXAMPLE FROM THE FIELD

E Stephen, who came from meagre means, is now the assistant manager of one of the tea estates in Devikulam. He pursued his studies on a Tata scholarship and decided to join the tea estate in 2007.*

Source - <https://www.deccanherald.com/content/112570/women-brew-turnaround-story-tea.html>

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

VEGETABLE GROWER

A Vegetable grower carries out various activities in a farm for cultivation of vegetables, which include preparation of soil, selection of planting material, planting and nurturing the crop, harvesting and marketing the vegetable produce and so on.

PERSONALITY TRAITS



- You are physically fit
- You are comfortable communicating with others
- You pay attention to details while working
- You like gardening



EDUCATIONAL PATHWAY

Minimum Qualification

After completing class 8 and being 18 years of age you can enrol for National Skills Qualification Framework (NSQF)* level 4 Vegetable Grower Training

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EXPECTED INCOME

**These figures are indicative and subject to change*

The approx. salary of a Vegetable Grower ranges between **INR 8,800 - 22,000*** per month.

Source - <https://paycheck.in/career-tips/role-income/india-field-crop-and-vegetable-growers#:~:text=Salary%20range%20for%20the%20majority,the%20start%20of%20the%20job>



A majority of government schemes are free



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can vary from time to time)

WHERE WILL YOU WORK?

Places of Work: Vegetable Growing Farms, Kitchen Gardening Service Agencies, Vertical Gardening Agencies, Rooftop Gardening Agencies, Vegetable shops and so on.

Entrepreneurship: You can grow vegetables on contract in your land and sell them to the contractor or you can grow vegetables and sell them yourself.

Work Environment: You have to work for at least 8 to 9 hours and for 5 to 6 days a week. Shift duties may be there. Overtime is common.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Vegetable Grower → Supervisor

Search keywords...



vegetable farmer, vegetable grower, supervisor

WHERE WILL YOU STUDY?

INSTITUTES

1. Indian Agricultural Research Institute (IARI), New Delhi
2. Central Institute of Horticulture, Medziphema, Nagaland
3. National Horticultural Research and Development Foundation, New Delhi
4. College of Horticulture, Kerala Agricultural University, Thrissur, Kerala
5. Punjab Agricultural University, Ludhiana, Punjab
6. Tamil Nadu Agricultural University, Coimbatore, Tamil Nadu
7. Dr. Y.S. Parmar University of Horticulture and Forestry, Solan, Himachal Pradesh

EXAMPLE FROM THE FIELD



Vikas Thakur is a young farmer from Shimrod village, located at the edge of the Solan district bordering Sirmaur. Previously, he was working for an agency that marketed multinational confectionery products. In 2009 he decided to optimally utilise the land that he owned, and took the plunge to get two polyhouses, of 250 square metres each, erected. "I decided to produce vegetables, including both the routine produce as well as the exotic ones that land up on the dining tables in five-star hotels. Today I produce capsicum of the green, yellow and red varieties apart from cumin, broccoli and cucumber. I am highly satisfied with my decision as I earn a decent amount," says Vikas.*

Source - downtoearth.org.in/news/agriculture/himachal-s-farm-success-story-at-risk-of-going-awry-63025

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



42

VETERINARIAN

A Veterinarian is a medical professional who provides treatment to animals.

PERSONALITY TRAITS

- You like to take care of animals
- You have interest in understanding how the animal body functions
- You like helping people
- You like to analyse things (problems/situations)



The approx. course fee ranges between **INR 20,000 - 3,00,000*** for the full course

**These figures are estimated numbers and will vary from Institute to Institute.*

SCHOLARSHIPS

• **National Scholarship Portal** - Visit www.scholarships.gov.in. Under this portal there are Central Government Schemes offered by different departments, UGC/AICTE Schemes and State Schemes*

• Visit www.buddy4study.com for details on available scholarships. This is a gateway to scholarships starting from Class XI*

• Scholarships are also available in the Institutes based on merit*
*(Availability of these scholarships can 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), Ministry of Education and Indian Banks Association (IBA).

• Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.

• All banks give education loans.



EDUCATIONAL PATHWAY

1. Complete 10+2 in the Science stream (Physics, Chemistry and Biology)
2. Complete a Bachelor's degree (B.V.Sc.) in Veterinary Science/ Veterinary Medicine OR
Complete a Bachelor's degree and then pursue a Master's degree (M.V.Sc.) in the same or related field
OR
Opt for a Diploma in Veterinary Science/ Animal Husbandry/ Veterinary Pharmacy

Please check the duration of the course during enrolment



EXPECTED INCOME

**The figures are indicative & subject to change*

The approx. salary of a Veterinarian ranges between **INR 16,800 - 1,66,000*** or more per month.

Source - <https://www.payscale.com/research/IN/Job=Veterinarian/Salary>

WHERE WILL YOU WORK?

Places of Work: You can work at Animal Hospitals and Clinics, Zoos and Aquariums, Food-processing plants, Farms, Colleges and Universities, research labs, animal shelters and national parks, among others.

Entrepreneurship: You can start your own private clinic.

Work Environment: You are likely to work both indoors and outdoors, and travel is likely to be part of your job profile. You are likely to work a minimum of 45 hours per week.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH

Intern → Junior Doctor → General Veterinarian → Hospital/Clinic Owner
OR
Intern → Junior Doctor → General Veterinarian → Senior Veterinarian → Head of the Department → Chief Medical Officer → Dean of the Hospital

Search keywords...



veterinary doctor, veterinarian, veterinary technologist

WHERE WILL YOU STUDY?

The course is offered by the Department of Veterinary Science or Medicine.

This list of institutes is indicative only.

GOVERNMENT INSTITUTES

1. MVC Chennai - Madras Veterinary College, Chennai -Tamil Nadu
2. BVC Mumbai - Bombay Veterinary College, Mumbai, Maharashtra
3. Krantisinh Nana Patil College of Veterinary Science, Satara, Maharashtra
4. DUVASU Mathura - UP Pandit Deen Dayal Upadhyaya Pashu Chikitsa Vigyan Vishwavidyalaya Evam Go Anusandhan Sansthan, Mathura, Uttar Pradesh
5. NVC Nagpur - Nagpur Veterinary College, Nagpur, Maharashtra
6. TANUVAS Chennai - Tamil Nadu Veterinary and Animal Sciences University, Chennai
7. IVRI Bareilly - Indian Veterinary Research Institute, Bareilly, Uttar Pradesh
8. West Bengal University of Animal and Fishery Sciences, Kolkata (offers B.V.Sc in animal husbandry) West Bengal

PRIVATE INSTITUTES

(Please check if Institute is affiliated and accredited with UGC and MCI before applying)

1. Apollo College Of Veterinary Medicine (ACVM), Jaipur, Rajasthan
2. Arawali Veterinary College (AVC), Sikar, Rajasthan
3. Birsa Agricultural University: Faculty of Veterinary Science & Animal Husbandry (BAUFVSAH), Ranchi, Jharkhand
4. College Of Veterinary Science and Animal Husbandry (CVSAH), Junagadh, Gujrat
5. College Of Veterinary Sciences and Animal Husbandry (CVSAH), Aizawl, Mizoram
6. Govind Ballash Pant University of Agriculture & Technology (GBPUAT), Pantnagar, Uttarakhand
7. Guru Angad Dev Veterinary and Animal Sciences University, Ludhiana, Punjab
8. Krantisinh Nana Patil College of Veterinary Science (KNPCVC), Satara, Maharashtra

Information on Institute rankings is available at -
<https://www.nirfindia.org/Rankings/2023/Ranking.html>

EXAMPLE FROM THE FIELD

Dr Sakkubai Ramachandran was India's first woman veterinarian. She did her Bachelor's in Veterinary Science from Madras Veterinary College at Vepery, Chennai. She later assumed many prestigious posts, and retired as scientist from IVRI, Bangalore in 1971.*

Source - <http://www.veterinaryworld.org/2008/December/Role%20of%20Women%20in%20Veterinary%20Profession.pdf>

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VINEYARD GROWER

A vineyard grower is responsible for the planting, growing and harvesting of the grapes for wine. The individual is also responsible for the selection of the site, land preparation for the vineyard and managing the workers in the vineyard.

PERSONALITY TRAITS



- You are an ambitious person and set goals for yourself
- You like gardening
- You would like to start your own business



EDUCATIONAL PATHWAY

Minimum Qualification

1. Complete 10 + 2 in Science stream (Physics, Chemistry & Maths/Biology)
2. Enrol for National Skills Qualification Framework (NSQF)* level 4 - Vineyard Grower

OR

Complete a Bachelor's degree in Wine Technology/ Wine, Brewing and Alcohol Technology/ Viticulture or any related subject

OR

Complete a Diploma in Wine Technology/Wine Studies/ Fruit Processing and Wine Technology

OR

Complete a Bachelor's degree followed by an MBA in Wine Business Management

3. Complete a Bachelor's in Horticulture/Fruit Processing/Wine Technology followed by a certificate course such as Advanced Wine Pro/Wine and Spirit Education Trust etc

Please check the duration of the course during enrolment

**NSQF is a nationally integrated education and competency-based framework that enables persons to acquire desired competency levels in a chosen field. NSQF includes vocational education, vocational training, general education and technical education which prepares an individual for the job market with competent skills. An individual may return at any time to upgrade skills after gaining experience*



EXPECTED INCOME

**These figures are taken from NCS and are indicative and subject to change*

The approx. salary of a Vineyard Grower ranges between **INR 8,000 - 40,000*** per month.

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



The approx. course fee ranges between **INR 7,000 - 70,000***

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



SCHOLARSHIPS

- Visit the **National Scholarship Portal** for details on ITI registered with NSP: scholarships.gov.in/fresh/onlineInstituteSearchIndex
- Visit **buddy4study.com** for details on scholarships for ITI/Vocational Training: buddy4study.com/article/iti-scholarships
(Availability of these scholarships can 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).
- Some states have student credit cards with low interest rates, for instance, West Bengal, Odisha, Bihar, etc.
- All banks give education loans.

WHERE WILL YOU WORK?

Places of Work: Wineries, Vineyards, Grape Farms etc.

Entrepreneurship: You can start your own business by directly supplying the product to the shops.

Work Environment: It is not a desk job. You are likely to manage a team of workers and helpers. Part-time and contractual jobs may be available. You are likely to have flexible work hours and overtime will be common during harvest season.

Opportunities for work exist for differently abled in this field

EXPECTED GROWTH PATH



Vineyard Grower → Field Supervisor →
Vineyard Manager

Search keywords...



grape farmer, viniculturist, grape cultivator

WHERE WILL YOU STUDY?

SOME OF THE INSTITUTES, WHICH OFFER COURSES IN WINE TECHNOLOGY, WINE STUDIES AND RELATED SUBJECT.

(This list of institutes is indicative only)

1. IDRAC Business School, India Campus, Pune
2. Gargi Agriculture Research and Training Institute (GARTI), Nashik
3. Wines And Spirits Academy, New Delhi
4. Tulleeho Wine Academy, Bangalore
5. Indian Professional Bartending Academy (IPBA), Pune & Mumbai
6. IIBT Chandigarh, Chandigarh
7. Ambedkar Marathwada University, Aurangabad
8. Savitribai Phule Pune University



46

EXAMPLE FROM THE FIELD

Born in Nashik wine region, **Kaushal Khairnar** grew up surrounded by grape growers and wine producers. This led to his attending an introductory winemaking course for three years starting in 2008 at Gargi Agriculture Research and Training Institute (GARTI) Nashik. After his B.Sc. in Winemaking from GARTI, he did his Master's Degree in Viticulture and Oenology from Montpellier SupAgro University. He is currently the winemaker at Chandon India. From grape harvest to the final disgorgement of bottles, Khairnar has tried his hand at all.

Source: https://www.indianwineacademy.com/item_3_882.aspx

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