

# BACTERIOLOGIST

A Bacteriologist is a specialized scientist who studies bacteria and other microorganisms. Bacteriologists study the effect bacteria have on humans and animals, and try to understand their nature better and eventually use them for human benefit.

## PERSONAL COMPETENCIES

- You have an interest in Science
- You like to analyse problems/situations
- You pay attention to details while working
- You like to work with computers



The approx. course fee ranges between **INR 7,200 - 3,21,000\***

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

## SCHOLARSHIPS

• National Scholarship Portal - Visit [www.scholarships.gov.in](http://www.scholarships.gov.in). Under this portal there are Central Government schemes, UGC/AICTE Schemes and Assam Government Schemes offered by different departments\*

• Visit [www.buddy4study.com](http://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](http://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



## ENTRY PATHWAY

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

**OR**

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

**OR**

Complete an MBBS degree, followed by an M.D. in Microbiology/ Medical Genetics/ Molecular Pathology/ Molecular Genetic Pathology/ Biochemistry

*Please check the duration of the course during enrolment*



## EXPECTED INCOME

*\*These figures are indicative and subject to change*

The approx. salary of a Bacteriologist ranges between **INR 75,000-1,32,000\*** per month.

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

## WHERE WILL YOU WORK?

**Places of Work:** Government and Private Hospitals/Laboratories, Plantations, Agricultural Farms, Agricultural Research Organizations and so on

**Work Environment:** It is not a desk job. You may need to handle a team of laboratory workers and helpers. Local travel is not a part of this job role. Part-time work and contractual jobs may be available. 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

Bacteriology Intern → Lab Technician/  
Junior Bacteriologist → Bacteriologist →  
Senior Bacteriologist → Head of Department,  
Bacteriology → Dean/CEO/  
Medical Director

Search keywords...



*bacteriologist, bacteriology, microbiologist*

## WHERE WILL YOU STUDY?

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

### GOVERNMENT INSTITUTES

1. Bodoland University, Kokrajhar
2. Dibrugarh University, Dibrugarh
3. Gauhati University, Guwahati
4. B Borooah College, Guwahati
5. Assam University, Silchar
6. Cotton University, Guwahati
7. North Eastern Hill University, Shillong
8. Scottish Church College, Kolkata

### PRIVATE INSTITUTES

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

1. Royal Global University, Guwahati
2. Mount Carmel College, Bangalore
3. Assam Down Town University, Guwahati
4. Ramnarain Ruia College, Mumbai
5. Assam Don Bosco University, Guwahati
6. Sir Parashurambhau College, Pune
7. St Joseph's College, Bangalore
8. K J Somaiya College of Science and Commerce, Mumbai

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

### DISTANCE LEARNING INSTITUTE

Indira Gandhi National Open University (IGNOU)

### ONLINE COURSES

- NPTEL\* Swayam - [archive.nptel.ac.in/courses/102/103/102103015/](https://archive.nptel.ac.in/courses/102/103/102103015/)
- Udemy - <https://www.udemy.com/course/general-bacteriology-a-concise-course/>

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

## EXAMPLE FROM THE FIELD

**Meenakshi Banerjee** is a Cyanobacteriologist who is currently stationed as the Head of the Center for Applied Algal Research at Rice University in Houston, Texas. She completed her Bachelor's degree at Women's College, Banaras Hindu University, where she studied Botany. She then completed her Master's in Botany from the same college. She did her Ph.D. from Barkatullah University, Bhopal, where she went on to become the Head of the BioScience Department. She has received various awards, including the Dr. K.N. Katju State Level Science Award in 2010.\*

Source : [https://www.ias.ac.in/public/Resources/Initiatives/Women\\_in\\_Science/Contributors/meenakshibanerjee.pdf](https://www.ias.ac.in/public/Resources/Initiatives/Women_in_Science/Contributors/meenakshibanerjee.pdf)

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