

Talent Corner

NATURE'S BLESSING

Let's acknowledge the gifts we have been given

Those countless blessings bestowed on us from heaven,

From the welcome warmth of the rising sun,

The lovely sight of kids having so much fun.

The chirping of birds early in the morning

Blooming of flowers on the arrival of spring,

Sparkling of grass with morning dew,

The silver-white clouds hung in sky above blue.

Ripening of crops under the feeble sunlight

Twinkling of numerous stars during night,

The mesmerizing beauty of snow-capped mountains,

The pleasant earthy scent of the soil after rains.

The sound of crashing waves at the shore

Those lush green meadows attracting more,

A cool breeze blowing through the trees,

Hovering of wasps and buzzing of bees.

Those dense forests with flowing streams

A perfect view I imagined in my dreams,

This wondrous view gives me a feeling of glee

And it doesn't stop as far as I can see.

-- Tarandeep Singh
Singhpura Miran Sahib

SUDOKU

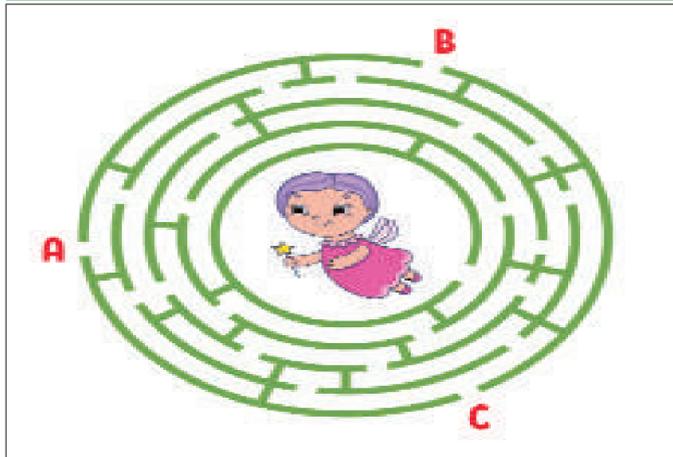
		2						3
	4	9		6				8
1	3	5			4			
		8	9	2	1	7		
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SOLUTION OF LAST WEEK

SUDOKU

8	4	9	3	6	1	5	7	2
3	2	6	5	9	7	8	1	4
5	7	1	8	2	4	6	9	3
2	6	3	4	7	5	9	8	1
7	8	5	1	3	9	2	4	6
9	1	4	2	8	6	3	5	7
4	9	7	6	5	3	1	2	8
6	5	8	7	1	2	4	3	9
1	3	2	9	4	8	7	6	5

MAZE



COMPLETE THE PICTURE



CAREER AID

Career In Biotechnology

Students interested to make a career in the field of Biotechnology can pursue different Biotechnology courses offered by top institutes including AIIMS, JNU, IIT and other central universities. Read the article to know more about Biotechnology courses and career scope.

Biotechnology is a branch of science that is an integration of natural science processes fused with engineering sciences to develop useful products for humankind. It is an amalgamation of different subjects such as Biology, Chemistry, Mathematics and Technology. Biotechnology has huge applications in different fields including healthcare, pharmacy, food production, animal husbandry, agriculture, textiles, and nutrition. One can witness its application in our day-to-day life in different products developed through genetic engineering as well as cell and tissue culture technologies.

Genetic Modified Crop is one of the applications of Biotechnology in the field of Agriculture. The Discovery of new drugs and other innovative technology-based products has changed our life completely and the credit goes to Biotechnology.

Universities and Colleges offer different courses in Biotechnology to impart students with theoretical knowledge and practical exposure to application-based skills. Those who have a keen interest in research and development can opt for different Biotechnology courses. Various diploma, undergraduate, and postgraduate level courses are available in the Biotechnology field. After doing relevant courses in Biotechnology, students can opt to work in the fields of Healthcare, Pharma, Food Industry, Agriculture, and many related domains.

Best Biotechnology Careers

Biomedical Engineer; Biochemist; Medical Scientist; Clinical Technician; Microbiologist; Process Development Scientist; Biomanufacturing Specialist; Business Development Manager; Product Strategist; Biopharma Sales Representative; Medical Scientist; Biotechnological Technician; Epidemiologist; Microbiologist; Medical and Clinical Lab Technologist; Biomanufacturing Specialist; Bioproduction Specialist; R&D Scientist.

Biomedical Engineer

The job of a Biomedical Engineer generally includes fusing biological and engineering skills to construct solutions for problems related to medicine and biology. You can pursue a bachelor's or master's in Biotechnology or Biomedical Engineering and a related field to pursue this career profile. A Biomedical Engineer aims to develop and design better quality biomedical devices, equipment, artificial organs, diagnostic machines, and software for healthcare.

Average Annual Salary of Biomedical Engineer: \$64,000 - \$1,50,000

Biochemist

A biochemist studies the chemical attributes of biological processes and living things including various diseases,



heredity, and cell growth or destruction. Such biochemists mostly spend time in the labs because of the complex research. They analyze, isolate, and synthesize fats, proteins, carbohydrates, DNA, and other molecules to know the effect of such things on our bodies. Once they see a positive impact, they build a product for the welfare of society. To follow the career path of a Biochemist, you must have a master's degree in any of the major fields like Chemistry, Biochemistry, Biology, Medical Chemistry, etc.

Average Annual Salary of Biochemist: \$70,000 - \$80,000

BSc: Biochemistry

Medical scientists scratch every corner of the research to improve patients' health by investigating different types of disease and their prevention methods. They constantly strive to analyze and prepare medical samples to know the causes and treatments of chronic diseases, pathogens, and toxicity. In addition to this, they standardize drug doses, methods, and potency to help in the process of manufacturing & distribution of medicinal compounds and various drugs on a large scale. By pursuing any of the major Medical Science Courses, you can explore this career opportunity across varied sectors.

Average Annual Salary of Medical Scientist: \$80,000- \$1,00,000

Clinical Technician

These clinical technicians are also known as biological technicians or medical laboratory scientists. They gather samples, conduct tests, and analyze the results of human body bacteria, tissues, fluids, and other so many other substances. Highly technical laboratory instruments like specialized computer software, advanced robotics, and automated equipment are used by them to analyze, model, and collect experimental information. There are varied diplomas and specialised courses available for those wanting to become a Clinical Technician and you can also explore degree programs in Clinical Technology and Medical

Technology to pursue this job prospect.

Average Annual Salary of Clinical Technician: \$70,000- \$90,000

Microbiologist

As a Microbiologist, you will need to study the immune system, bacteria, and distinctive viruses to create industrial and biomedical-related products. A series of complex researches are conducted to find treatments for various infectious diseases. Completing a course in microbiology can make you ideal for this role and you can also further opt for a Master's in Microbiology to steer towards a career in Microbiological research. Average Annual Salary of Microbiologist: \$40,000- \$70,000

Process Development Scientist

Process Development Scientist tends to supervise the manufacturing process in an organization's laboratory. They always look for pathways that elevate the efficiency and quality of the product. Once a product has been developed and production begins, these scientists build creative methods to scale up the products keeping in mind the standardized form of the product. The minimum educational qualification required to become a Product Development Scientist is a bachelor's degree in Biotechnology, Biology, Chemistry Pharmacy, etc.

Average Annual Salary of Process Development Scientist: \$90,000

Bio-manufacturing Specialists

Such specialists utilize methods and tools to match the quality of the product up to the mark of purity, potency, and safety. Moreover, the process of biomanufacturing also includes the production of a large-scale protein that is used to cure human illness. Along with such scientific skills, they also know state, federal, and industry regulatory standards. Majorly, to apply for the profile of a biomanufacturing specialist, you need to be a graduate in Biotechnology, Medical Engineering or Biomedical Engineering.

Average Annual Salary of Biomanufacturing Specialists:

\$80,000- \$ 90,000

Business Development Manager

A Business Development Manager represents a highly researched market analysis and competitive intelligence to assist biotechnology companies. Their primary aim is to execute and formulate the growth & investment strategies of the companies. They help companies to expand, assess, acquire, indulge in collaborative research, and tie up with other biotechnology organizations to gain business growth. If you aim to explore the arena of business and management, you can simply apply for this job position after completing a diploma or bachelor's in Biotechnology.

Average Annual Salary of Business Development Manager: \$ 90,000- \$ 1,00,000

Product Strategist

A Product Strategist is accountable for the creation and enforcement of the commercialization strategy of the biotechnological products. Such product strategists take care of the product launch, development, marketing, logistics, sales, growth, and profitability while keeping a check on regulatory and quality needs. To become a product strategist in the biotechnology arena, you can opt for a degree in the same field or related specialisations like Biomedical Engineering and biomanufacturing, amongst others.

Average Annual Salary of Product Strategist: \$1,00,000

Biopharma Sales Representative

If you are one of those students who want to work in the field of Biopharma but not in the core, then signing up for a management job is a perfect option for you. A management career in Biotechnology lets you work in non-scientific jobs like medical representatives or sales executives. Panacea Biotech Limited, Novozymes Biocon, and Dr Reddy's Laboratories Limited are some of the popular companies in this field. Meeting with doctors, researchers, students, technicians and scientists will be a regular activity for you.

Average Annual Salary of Sales in a Biopharma Company: \$90,000- \$ 1,00,000

Scope in Biotechnology

There is an immense career scope in Biotechnology as you can work on creative efficient medical equipment and technologies, healthcare innovations, pharmaceutical research and much more. Building a successful career in Biotechnology, you will be working at the forefront of research in food sustainability, agriculture, medical sciences and healthcare. Here are the most popular sectors where you can pursue a promising career in Biotechnology.

Popular Employment Sectors

Along with the above-mentioned work sectors, here are some other popular employment sectors becoming part of which you can kickstart your career in Biotechnology

If you have any ideas, poems, stories, paintings that you would like to share with us, please send it to the
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