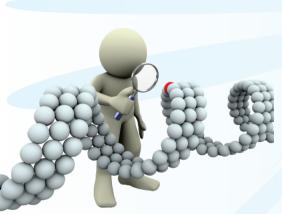
Introduction to

Biotechnology

Why? Who? What? Where?



Why Biotechnology?

Biotechnology has emerged as a far reaching technology that helps to improve the quality and sustainability of life. Scientists have recognised biotechnology as the 'technology of hope'. It is a multi disciplinary area and includes subjects like biology, engineering, medicine, agriculture, physics, chemistry, computer science and mathematics.

Who should be a Biotechnologist?

Any student who:

- Desires to pursue biological studies
- Has a scientific aptitude
- Is creative and has problem solving skills
- Is interested in academics and research
- Is analytical and has IT skills

Specialisations within Biotechnology:

- Animal Biotechnology
- Food Biotechnology
- Veterinary Biotechnology
- Medical Biotechnology
- Marine Biotechnology
- · Genetic Engineering
- Industrial Biotechnology
- Microbiology
- Nanotechnology
- Seri-biotechnology

Where do Biotechnologists work?

- Astra Zeneca
- Biocon India
- Biotech India
- GSK Pharma
- Dr. Reddy's Laboratories

Best colleges for Biotechnology in:

India:

- All India Institute of Medical Sciences-New Delhi
- IITs'
- Satyabhama Institute of Science & Technology-Chennai

USA

- University of Pennsylvania
- University of California-San Francisco
- John Hopkins University

UK

- University College of London
- Imperial College
- University of Edinburgh

Canada

- Carleton University
- University of Toronto
- University of British Columbia



Did you know? Biotechnology has created more than 200 new therapies and vaccines, including products to treat cancer, diabetes, HIV/ AIDS and autoimmune disorders.





Discover the Career Options Right for You

1 Initial Options 2 Hypothesis

3 Validation

4 Finalisation



What are your career ideas?

If you haven't already given it a thought, then base it on influences from:

- · Parents, family and friends
- · Passion towards a subject
- Personal experiences
- Media and internet

Univariety probes and provides answers

Initial Options

Go to step 2

- Follow this process, one at a time. to finalise career choices
- If the answer is 'No' 'at any stage then start from stage 1
- Complete details of this process and the questions around a 'Typical Day' Test are at www.univarietv.com/courses



Do you like it?

Remember the activities from the past which gave you joy and happiness. Does this career option similarly excite you?

Initial Hypothesis



Can you do it?

- · Do you know how long it takes to get the degree?
- Do you like the subjects which vou will study?
- Can you perform to get through to good colleges?
- Do you have the financial resources to support the degree?

Final Hypothesis Go to step 3



Do you want it?

Do you like the:

- Nature of work you will do?
- Type of people you will deal with?
- Physical and mental effort required?
- The challenge it poses?



Will it fulfill your and vour family's ambitions?

Will this give you a good:

- Lifestyle?
- · Time with family and friends?
- Salary and money potential?
- · Possibility of being famous?

Validated Hypothesis Go to step 4



'Typical Day' Test?

"If you want to know the road ahead, then ask someone who has travelled it."

- Ancient Chinese Proverb

Here, we ask you to identify 2 - 3 people who have the same career that you have chosen and brought to this stage. Observe and ask questions to understand the 'typical life' in that career



- Discussion within the family and
- Univariety Website Career
- Sessions with Univariety
- Internet, books and other media.

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