



INDIAN BIOSCIENCES INSTITUTE OF TECHNOLOGY

BIOTECHNOLOGY TRAINING PROGRAMME 2016-2017

**SUMMER TRAINING
PROJECT WORK
PLACEMENTS**

TRAINING BROCHURE

**INDIANTM
BIOSCIENCES**

A decorative graphic consisting of a series of vertical bars of varying heights and colors, including orange and green, positioned below the text.

DNA Testing Simplified

Indian Biosciences

Our Training Programs provides opportunities to inspire young professionals to work in major areas of Life Science & Forensic Science. We have consistently offered **dynamic hands on training that builds industry-relevant skills** as well as **embellish confidence** in young minds.

This Program is especially designed for Final year students, scholars and professionals who wish to understand the advanced aspects of Biotechnology, Molecular Biology, Forensics and various other domains linked to it, as the internship program aims to provide conceptual aspect along insights of Bioservices sector. The purpose of this program is to recruit the talent at **INBIT**, thereby the course is designed with a focus on market needs of Bioservices sector.

- ISO 9000 - 2008 Certified Organization.
- Labs equipped with all modern equipment.
- Learn Next Generation Sequencing with us.
- Only lab in NCR giving Hands on training in Forensics with real case experiences.
- Focus on hands on training of every individual student.
- Leading name in genetic testing.
- Delivery of certificate after successful completion of training.
- Summer Training Projects of 3-6 months duration are accomplished successfully.

Eligibility : Scholars / Students from Biotechnology / Microbiology / Bio-Chemistry / Pharmacy / Forensic Science / Applied Chemistry etc.

Duration : 1 Months to 6 Months

Selection Criteria: First come first served (Pre Registration Required)

Training Programs: 2016-17

Module – 1

Basic Molecular Biology Techniques

Duration: 4 Weeks

Fee: Rs. 7,500/-

Conceptual Basics & Scope of Biotechnology
Genes, Nucleic Acid, Nucleotides & Nucleosides, DNA
Polymerase, Genetic code, Alleles.

History

Present scenario

Ongoing Biotech Projects

Basic Molecular biology techniques & applications

Isolation & Visualization of Nucleic acid

DNA isolation from plant source

DNA isolation from buccal mucosa

Agarose Gel Electrophoresis (AGE)

Polyacrylamide Gel Electrophoresis (PAGE)

SDS-PAGE

ELISA

RFLP

Introduction to biotech laboratory

Good Laboratory Practices

Basic instrument handling

Solution Preparation

Bioinformatics

Introduction to Bioinformatics. Application & Research,
Present Scenario

Basics of C/C++ programming

Module – 2

Advanced Molecular Biology

Duration: 4 Weeks

Fee: Rs. 8,800/-

Advanced Concepts of Biotechnology

SSCP

RFLP

STR

VNTR

Reagent Preparation

Reagent preparation of different molarities.

Reagent preparation of different concentrations.

Immunology

Blood group estimation

Advanced Molecular Biology Techniques & Applications

Isolation & Separation of Nucleic Acid (DNA) from
Various Sources - Plant leaves, Green gram seeds,
Saliva, blood etc.

Qualitative & Quantitative Analysis of DNA through Gel
Electrophoresis

Polyacrylamide Gel Electrophoresis (PAGE)

Electrophoresis and Elution of DNA

Restriction Digestion of λ DNA using molecular scissors

PCR and its application

Introduction to PCR Handling & Programming

Amplification of nucleic acid (DNA) through PCR

Electrophoresis of PCR Products

Forensic application of PCR

Clinical Application of PCR

Relationship Testing through PCR

Staining Techniques

Silver staining

Ethidium Bromide staining

DNA Fingerprinting

Introduction

Application in Human Identification, Relation
establishment & Forensics

DNA profiling through STR Analysis

Module – 3 Forensic Testing

Duration: 4 weeks
Fee: Rs. 10,000/-

Detection of Blood

Benzidine Test
Micro Chemical Tests
Microspectroscopic test
Determination origin of blood stains
Grouping of blood stain

Body Fluid Examinations:

Examination of Seminal Stains
Physical Examination
Chemical Examination
Microscopic Examination
Age of Seminal Stain

Quantitative Determination of Blood Stains

Age of blood stains
Sexing of blood stains
Identification of Menstrual blood stains
Identification of Nasal blood stains
Identification of Lochial blood stains

Examination of Saliva Stains

Chemical Examination
Microscopic Examination
Grouping of Saliva Stains

Body Fluid Examinations:

Examination of blood stain
Examination of sweat stains
Examination of milk stains
Examination of pus stains
Examination of stains due to vaginal secretion

STAIN OF FRUITS, VEGETABLES AND CEREAL FLOURS STAINS DUE TO COMMON COOKING SPECICES

Registration Process:

1. Fill up the registration form with complete details (Available at <http://inbit.in/Registration.html>)
2. Affix one recent passport sized colour photograph on form.
3. Attach copy of recommendation Letter / University Letter / ID Card / Voter I.D. / Any other valid ID Proof.
4. Prepare and attach Demand Draft for **Rs 1,200/-** in favour of "**Indian Biosciences**", payable at New Delhi. (Registration Fee is non refundable and adjusted in the total fee)
5. Post the documents by reputed courier service to our registered corporate office:

Corporate Office:

**G-2 (Ground Floor Rear) Kailash Colony, New Delhi - 110048, India. In case of further queries, please
Contact us on: 0124 4256088, 09818779747, 180030002888.
Email: info@inbit.in**

Training Centres:

- **534, Udyog Vihar Phase – V, Gurgaon – 122016, Haryana, India.**
Phone: 0124 – 4256088 Mobile: 09818779747 Toll Free: 180030002888 | Email: info@inbit.in |
Website: www.inbit.in
- **G-2, Ground floor, Kailash Colony, New Delhi-110048, India**
Phone: 011 – 29236088 Mobile: 09818779747 Toll Free: 180030002888 | Email: info@inbit.in |
Website: www.inbit.in