

Career Training

Practicum in Biotechnology

- Biological Safety
- DNA Finger Printing
- DNA Bar Coding
- DNA Forensics
- Isolation and Characterization of Proteins/Nucleic Acid
- RNA/DNA Manipulations
- Nanobiotechnology
- Genetically Modified Organisms/Foods
- REAL-TIME and Conventional PCR Analysis
- qPCR Validation
- cDNA cloning and sequencing
- Bioinformatics – Primer and Probe Design
- Entrepreneurial Biosciences

Develop Laboratory Oriented Skills

REFUND POLICY	
<i>All withdrawal requests must be made in writing.</i>	
Type of Refund	DATE
Full Refund	Withdrawal before February 1, 2014
No Refund	Withdrawal after February 1, 2014
Program Cancellation	If the minimum number of students is not met, the program may need to be cancelled. We strive to provide at least a two week notice prior to cancellation. All participants will be refunded 100%.

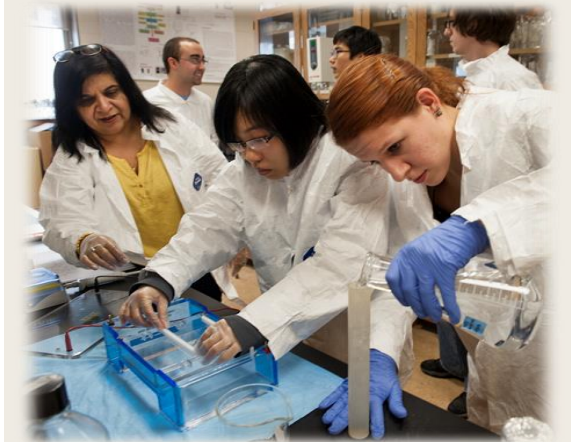


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PRACTICUM IN
BIOTECHNOLOGY

ADVANCE TRAINING
INDIANA UNIVERSITY OF
PENNSYLVANIA (IUP)
PENNSYLVANIA, USA



Foster Interdisciplinary Science Research

Career Training

Training Dates/Workshop

DATE: JUNE 2 – JULY 3, 2014

Application Deadline: 12/15/2013

Cost Fees: \$600 (Instruction)

**Residential Cost: University Housing + Food
(\$50/day)**

Mail Application & Payment to:

Practicum in Biotechnology (2014)
IUP Research Institute
1179 Grant Street, Suite 1
Indiana, PA 15701
USA
research-institute@iup.edu
Phone: 724-357-2223
Fax: 724-357-7697

Payment: Checks can be made payable to the IUP Research Institute: Practicum in Biotechnology (2014). Please mail in check with application or pay by phone with credit card (we accept MasterCard and Visa). To pay by phone call 724-357-2223. Space is limited, so please note that we cannot hold your son/daughter's slot until payment and application have been received.

All application, payment, and medical history form are due by December 15, 2014.

Foreign applicants must also contact for DS -2019 visa requirements:
Ms. Christina Arroyo, J Advisor
IUP Office of International Education
Tel: 724.357.2295
Fax: 724.357.2514

2014 BIOTECHNOLOGY SUMMER TRAINING

Course Description: The Training Program in Biotechnology will provide exposure to modern techniques in biology, proteomics, functional genomics, and concepts related to bio-material science, tissue regeneration, and forensics. The lecture part of the course will cover the principles and techniques of recent developments and findings in recombinant DNA technology. The laboratory component will provide the opportunity to learn and apply hands-on recombinant DNA procedures and the technologies related to the use of nucleic acids and proteins on a chip; electrophoretic analysis of mutant genes; and polymerase chain reaction (PCR) analysis.

- Cell Structure, Molecular Nature of Genes, Gene Regulation & Expression
- Introduction to Functional Genomics, Proteomics, Nano-biotechnology & Bioinformatics
- Experimental Principles in Forensics and Laboratory Operations
- Techniques in Biotechnology and Genetic Engineering
- Practicum in Biotechnology Seminar

Summer Training Scientists include IUP Faculty and Researchers, who collectively, have more than 150 years of experience in teaching and research.

