



CSIR-INDIAN INSTITUTE OF PETROLEUM

(Council of Scientific & Industrial Research)

P.O. IIP Mohkampur, Haridwar Road,
Dehradun-248 005, Uttarakhand (India)

Website: www.iip.res.in



Basic Skill Development Training program on 'Computation Biology'

Introduction

With experienced and qualified staff and comprehensive state-of-the-art R&D facilities the institute maintains its leading position in conducting training programs for the personnel from refining, petrochemical, automotive, power and related user industry. More than 8000 personnel from India and abroad have been trained on different requirements.

As per the initiatives taken by the Institute for 'CSIR-IIP Integrated Skill Development Training Programs' applications are invited from eligible Indian nationals for the program on 'Computational biology'.

Our computational facility is equipped with range of tools and software to analyze biological sequences, genome data, identify putative coding genes and model functional proteins.

Objectives & Scope

Introduction to Bioinformatics to extensive hands- on practice in order to selectively enable data scientists/ research scholars to effectively handle and interpret biological data for genome assessment and manipulation.

Contents

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| <ul style="list-style-type: none">• Introduction to bioinformatics and biological databases• Data searches and pair wise alignments,• Molecular phylogenetics• Comparative genomics, Genome sequencing and assembly• <i>In-silico</i> gene prediction and annotation, Gene Ontology analysis | <ul style="list-style-type: none">• Primer designing for PCR amplification and cloning into host vector for protein expression• Protein database searching, Sequence analysis Tertiary structure prediction, Homology modeling• Structure validation and refinement, Docking and active site analysis |
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After successful completion

Participant will be able to handle the tools and software that are used in biological sequence analysis, genome sequencing gene prediction, protein modeling and active site analysis.

Pre-requisites

Educational qualification required (Biological area)
B. Tech/M.Tech/M.Sc/B .Pharm/M.Pharm
(those appeared in the final exam can also apply).
20 – 45 years of age.
(**Age/qualification** relaxation as per Govt. of India Rules/discretion of Director, CSIR-IIP).

Who Should join

Any Indian citizen wish to work and excel in handling biological data for genome assessment and manipulation.

Salient features of the program

- Theory: Practical :: 30 : 70
- Interactive sessions for in-depth knowledge sharing.
- Evaluation of trainees will consist of both Theory & Practical component.
- Certificates will be awarded on successful completion of the training.

Contact for Registration

Please send hard copy of application and documents at following address:

Sh C D Sharma
Co-ordinator, Skill Development Training Program
CSIR-Indian Institute of Petroleum
Mohkampur, Haridwar Road
Dehradun - 248005

You may also correspond, send soft copy of application at following e-mail:

e-mail: cdsharma@iip.res.in
e-mail: aniljain@iip.res.in,
[Form download \(MS Word\)](#)

Contact phone nos.

Sh C D Sharma, Tel No 0135-2525950, M- 9412028789,
8830808928
Dr Anil K Jain, Tel 0135- 2525743(O), M-9897119578

Course Fees / Terms and Conditions

Course Fee shall be paid through e-payment option.

Bank Account Details facilitating e-transfer of Funds/Payment

Name of Bank : State Bank of India
Name of the account holder : Director, Indian Institute of Petroleum, Dehradun.
Bank Account No : 30266912400
Branch : IIP Township, Mohkampur Dehradun., India
Contact Person : Dr. Anil K Jain,
e-mail : aniljain@iip.res.in

SWIFT Code : SBININBB380
11 Digit IFS Code : SBIN0002359
MICR No. : 248002007
GSTIN : 05AAATC2716R2ZK

How to Apply & Selection

- Candidates have to apply as per the application format in the given link below.
- Selection will be made based on criteria after scrutiny of applications.
- All documents in original to be shown on the interview/ selection day and one self-attested set of documents to be submitted on date of interview/selection
Participant must bring his/her Laptop for the course study.

Training venue : CSIR-Indian Institute Of Petroleum

P.O. IIP Mohkampur, Haridwar Road, Dehradun-248 005, Uttarakhand (India).

No TA/DA and accommodation for interview will be provided to the candidates.

Important dates

Last date for submission of Application :
Declaration of participant :
Enrolment dates :
Commencement of course :

CSIR-Indian Institute of Petroleum, Dehradun