ABOUT THE INSTITUTE

The National Institute of Technology, Rourkela is a premier National Institute for technical education in the country and is funded by the Government of India. It was established in 1961 as 'Regional Engineering College' and is now recognized as an Institute of National Importance. It offers B. Tech degree in 13 disciplines, M. Tech degree in 27 specializations, M. Tech dual degree in 14 programs, B. Arch, MBA, MA in Humanities, M.Sc and Integrated M.Sc in Physics, Chemistry, Mathematics and Life Science. It also offers M. Tech (R) and PhD in 18 disciplines.

ABOUT THE DEPARTMENT

The Department of Biotechnology and Medical Engineering was started in year 2007 with its main aim of producing qualified engineers in the fast growing field of Biotechnology and Medical Engineering. The department offers B. Tech and M. Tech degrees in Biotechnology and in Biomedical Engineering. It also offers M.Tech (R) and PhD degrees.



Bioinformatics (BIF) center at NIT Rourkela was established in 2007 as part of an initiative taken by the Department of Biotechnology (DBT), Govt. of India. Its mission is to strengthen the infrastructure for supporting complex and computationally intensive problems in genomics and proteomics, training of individuals to develop competence in identification of useful genes and develop algorithms, tools for data mining related to human, plant, microbial genomes.

ABOUT THE TRAINING PROGRAMME

To educate and provide hands on training experience to the participants on the Applications of Bioinformatics in Biotechnology with expert guidance from faculties of our department and from VLife Sciences Pune.

GOALS OF THE TRAINING PROGRAMME

The primary goal of the training programme is to train the industry personals, teachers, research scholars and students to develop competence in complex and computationally intensive problems in structural biology, drug discovery and designing.

CONTENTS OF THE TRAINING PROGRAMME

- 1. Biological databases and Data Retrieval Systems.
- 2. Molecular mechanics.
- 3. Protein conformation and structural analysis.
- 4. Structure-based drug designing.
- 5. 2D & 3D QSAR.
- 6. Virtual screening generation and searching.
- 7. Pharmacophore modeling and identification.
- 8. Molecular phylogeny and MSA tools.
- 9. Homology modeling.

Short Term Training Program on APPLICATIONS OF BIOINFORMATICS IN BIOTECHNOLOGY

(ABB-2016)

17th – 21st February 2016

Prof. Mukesh K.Gupta (Convener)



Sponsored by

Department of Biotechnology, Ministry of Science and Technology, Government of India

In Association With



Department of Biotechnology & Medical Engg. National Institute of Technology Rourkela, Odisha 769008

http://www.nitrkl.ac.in

PATRON

Prof. Sunil Kumar Sarangi (Director, NITRourkela)

ORGANIZING COMMITTEE

Prof. Mukesh K. Gupta, Convener

Prof. Angana Sarkar, Co-Convener

Prof. Krishna Pramanik

Prof. Subhankar Paul

Prof. Thirugnanam A

Prof. Kunal Pal

Prof. Amit Biswas

Prof. Devendra Verma

Prof. Indranil Banarjee

Prof. Nandini Sarkar

Prof. Balasubramanian P

Prof. Kasturi Dutta

Prof. Nivedita Patra

Prof. Bibhukalyan P Nayak

Prof. Sirsendu Sekhar Ray.

ADDRESS FOR CORRESPONDENCE

Prof. (Dr.) Mukesh K Gupta Associate Professor and Head Department of Biotechnology & Med. Engg. National Institute of Technology, Rourkela Odisha 769008, India

Tel: 0661-2462294, 078734-82264 **E-mail:** guptam@nitrkl.ac.in

REGISTRATION & FEE PARTICULARS

Applications in the prescribed format and the registration fee in the form of a Demand Draft, drawn in favour of "Continuing Education, NIT Rourkela" Payable at Rourkela must reach the Convener on or before 10th February 2016. Seats are limited to 15.

Personnel from Industry and R&D

Organizations Rs.8,000/-

Faculties from Educational Institutions Rs.5,000/-

Research Scholars and Students Rs.4,000/-

* Registration fee includes training kit, Breakfast, Lunch, and accommodation during all the workshop days. Accommodation will be provided on sharing basis in the Institute Guest House, as per the availability.

TARGET PARTICIPANTS

- 1. Personnel from Biotechnology, Biomedical and Pharmaceutical and allied industries and research organizations
- 2. Faculties from various educational and research institutions
- 3. Research Scholars
- 4. Postgraduate students

Short Term Training Programme on

APPLICATIONS OF BIOINFORMATICS IN BIOTECHNOLOGY (ABB-2016) 17th- 21stFebruary2016

REGISTRATION FORM

Name of the Participant:

Designation:

(Student/ResearchScholar/Faculty/Industry)

Institute:

Address for Correspondence:

DD No.:----

Bank------Date-----

Email:

Mobile:

Copies of this form can be made, if necessary. Please send the filled in form to the Convener on or before – 10th February 2016. The details of the workshop & the form can also be downloaded from our website http://www.nitrkl.ac.in.