

HOW TO REACH ICAR-CIFRI

Barrackpore is located in north 24-parganas district, 24km. away from Netaji Subhas Chandra Bose airport and Howrah railway station. ICAR-Central Inland Fisheries Research Institute is located at Monirampur, 5 km. away from Barrackpore railway station on Sealdah main railway section. One can reach also from Howrah railway station, alighting at Sheoraphuly Railway station (on Howrah-Burdwan main section) and then by crossing the Hooghly River by ferry at Sheoraphuly ghat (alias Du paisa ghat) to Monirampur and walking to the campus.



HOW TO REACH MAP



Who can apply?

Faculties, research, fishery officials, post-graduate students, entrepreneurs in fisheries/fish farming.

How to Apply

Eligible candidates may apply in the prescribed application form along with brief biodata, which may be sent by post of Dr. Basanta Kumar Das, Director ICAR-CIFRI, Barrackpore, Kolkata - 700120, and must reach on or before 25.01.2025. Or the scanned copy of the same may be emailed to: kumar.vika.vikash2@gmail.com. selected candidates will be informed regarding their participation by e-mail.

Training fee

The course fee of Rs. 2000 (two thousand) for students and Rs. 3000 (three thousand) for others. This includes registration/bench fee but does not cover food, lodging and boarding charges. Accommodation in the institute guest house/training facility and food will be provided to desiring candidates as per availability and Govt. rates. No. TA and DA will be paid by the organizer to the participants.

Mode of Payment

The training fee may be paid as a Demand draft payable to 'ICAR UNIT CIFRI, BARRACKPORE' or by Account Transfer to ICAR UNIT CIFRI, BARRACKPORE, Bank Account Number: 11278713220, at State Bank of India, Barrackpore Branch (IFSC code: SBIN0000029). Payment may be made only after confirmation of participation. Demand draft or proof of payment must be brought by hand. Participants may also pay by credit or debit cards at the institute; payment by cash is not accepted.

Dates to remember

Last date of receipt of application/nomination: January 22, 2025



2ND TRAINING PROGRAM ON BIOINFORMATICS TOOLS AND ITS APPLICATION IN PREDICTIVE ECOLOGY AND FISHERIES

ORGANIZED BY
ICAR-CENTRAL INLAND FISHERIES
RESEARCH INSTITUTE BARRACKPORE,
KOLKATA - 700120



BioCompin Belgharia, Kolkata - 700056

Duration

27-31 January 2025

Course Director

Dr. Basanta Kumar Das

Course Co-ordinator

**Dr. Vikash Kumar, Dr. Suvra Roy, & Dr.
Hirak Jyoti Chakraborty**

Application Form

Training Program on Ecosystem health monitoring and fisheries management in inland open waters

Name of the applicant:_____

Nationality:_____

Educational qualification:_____

Date of Birth:_____ SEX:_____

Designation/present position:_____

Organization/affiliation:_____

Address for correspondence:_____

Email address:_____

Cell phone/Whatsapp number:_____

Whether accommodation (on payment basis) required at CIFRI:_____

Yes/No_____

Transaction ID of registration fee payment:_____

Contact

For further query, please contact

Course Director

Dr. Basanta Kumar Das, Director

ICAR-Central Inland Fisheries Research Institute

Barrackpore, Kolkata - 700120

Course Co-ordinator

Dr. Vikash Kumar, Sr. Scientist

kumar.vika.vikash2@gmail.com

Cell: +91-7005943001

Dr. Suvra Roy, Sr. Scientist

suvrar6@gmail.com

Cell: +91-7005780975

Dr. Hirak Jyoti Chakraborty

hj.chakraborty@gmail.com

Cell: +91-8731970057

Course to be covered

- Introduction to Bioinformatics
- Bioinformatics database
- File format
- Sequence search and retrieval from database through practice problems and assignments
- MEGA (Multiple Sequence Alignment)
- Phylogenetic tree construction
- Secondary structure prediction
- Primer design
- Basic R programming
- Molecular docking
- Introduction to metagenomics
- Sequence technology platforms and QC
- FASTQC and analysis through MG-RAST
- Introduction to transcriptomics
- Introduction to metatranscriptomics
- Introduction to proteomics
- Introduction to whole genome sequencing

Expert Lecture

Online Lecture

- Aquaculture pathology laboratory, The University of Arizona, USA
- Dept. of Aquatic Resource Management, Udayana University, Indonesia
- Chinese Academy of Fishery Sciences, People's Republic China
- Espol, Ecuador

Offline Lecture

- ICAR & ICMR Institute
- Industry lectures (Neuberg diagnostics, BioXpore labs and Nucleome informatics)

Venue

ICAR-Central Inland Fisheries Research Institute, Barrackpore, Kolkata - 700120

Training Period

27-31 January 2025

ABOUT THE TRAINING PROGRAM

There has been a huge effort in advancing analytical techniques for molecular biological data over the past decade. This has led to many novel algorithms that are specialized to deal with data associated with biological phenomena, such as gene expression and protein interactions. In contract, ecological data analysis has remained focused to some degree on off-the-shelf stistical techniques. However, this is starting to change with the adaptation can be made about the data and a more explorative approach is required, for example, through the use of Bayesian networks. This training program will give information on novel bioinformatics tools and their 'crossover potential' with an application to ecology and fisheries data. In different fish communities to predict functional collapse. The offline training encompasses the fundamentals and diagnostic approaches in bioinformatics tools and its application in predictive ecology and fisheries.

ABOUT THE INSTITUTE

ICAR-Central Inland Fisheries Research Institute, an ISO 9001:2015 certified and recipient of the Sardar Patel Outstanding Research Institute Award 2020, is India's premier fisheries research institute since 1947. The headquarters of the institute is located in Barrackpore, Kolkata-700120. With more than 75 years of national and international presence in the field of inland open-water fishery, ICAR-CIFRI is extending its expertise and facilities for the direct benefit of the fisher community, private and public organizations, academic institutions, and state departments. Research activities are conducted through five divisions: Riverine & Estuarine Fisheries(REF), Reservoir & Wetland Fisheries (RWF), Fisheries Enhancement & Management (FEM), adn Aquatic Environmental Biotechnology(AEB).