FACULTY DEVELOPMENT PROGRAM (FDP) ON

High performance and cloud computing in life science: From genomics to health care

(25-03-2026 to 29-03-2026)

25-27 (Online) & 28-29 (Hands-on (Offline))

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT Warangal

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

in association with

Department of Biotechnology, NITW

&

HPC – Medical & Bioinformatics Applications Group

Centre for Development of Advanced Computing (C-DAC), Pune

Preamble:

The Centre for Training and Learning (CTL) has been established at NIT Warangal with grants from the Min. of Education, through its scheme *"Pandit Madan Mohan Malaviya National Mission on Teachers and Teaching (PMMMNMTT)"*. Under this Scheme, a separate building has been built exclusively for the CTL activities, with the state-of-art training facilities that include a studio for production and uploading of video and e-lectures on various subjects of higher education, training halls to train the faculty in various theme areas of Science and Technology, humanities and social sciences, linguistics and communication skills, pedagogy and cognition evaluation, etc. among others. One of the important objectives of the Centre is to conduct training programmes for the aspiring, newly inducted and in-service faculty in science, engineering, social sciences disciplines in higher education. Other activities of the CTL include preparation of print and e-learning materials, offering on-line courses, curriculum design, carrying out research in educational technology and pedagogy and integrating with ICT into teaching-learning process. The CTL has special programmes of training for the marginalized and women-faculty.

About FDP:

The rapid expansion of genomics, AI-driven analytics, and precision medicine demands strong computational expertise in life sciences. This Faculty Development Programme equips faculty to design scalable bioinformatics workflows using High-Performance Computing (HPC), cloud platforms, GPU acceleration, and C-DAC Pune's Integrated Computing Environment (ICE). Through focused theoretical insights and hands-on training, the programme strengthens teaching, enhances research productivity, and empowers faculty to mentor students in solving real-world biological and healthcare challenges.

Major Course Contents:

- NGS & Genomics Data Analysis
- AI/ML in Bioinformatics and Biomedical Data Science
- Structural Bioinformatics (Molecular Docking, Virtual Screening & Drug Discovery Workflows)
- Molecular Dynamics Simulations and Biomolecular Mechanisms
- HPC, Cloud, and Workflow Automation for Life Sciences

Faculty conducting this programme:

The programme will be conducted by the scientists from CDAC and faculty members from NIT Warangal

Registration Fee Particulars:

Faculty	**Rs.1770/-**
Students / Research Scholars	**Rs. 885/-**
Industry Participants	**Rs.2360/-**

Participants need to pay the registration fees online using the following details

Online Transfer Details

Account Name: **Coordinator, TLC NITW**
Account No: **40376545007**
IFSC: **SBIN0020149**
Bank and Branch: **SBI, NIT(REC) Warangal**

How to apply:

Participants are required to fill the online registration form by clicking on the following link:

https://forms.gle/WevoASUoVZTczEKF9

Selection Criteria:

Selection will be done based on first-come-first-serve to a maximum number of 50 (fifty). Additionally, 10 participants from industry are allowed to participate. The list of selected participants will be intimated through e-mail. In case the candidate is not selected, the registration amount will be refunded. Candidates will be issued certificates on successful completion of the course. Reservations are followed for selecting candidates as per GOI norms.

Important dates:

Last date (Application & DD)	20 March 2026
Selection List by E- mail	23 March 2026

About NIT Warangal:

National Institute of Technology Warangal, formerly known as Regional Engineering College was established in 1959. Over the years it has developed into a premier institute of higher learning and is ranked among the top technical education institutions in India. There are 14 Departments offering eight undergraduate and 31 post-graduate programs besides doctoral programmes. About 5000 students across the country and about 500 international students study on the campus. It is a fully residential campus sprawling over 250 acres with excellent infrastructure in the form of state of the art library, seminar halls, guest houses and research laboratories.

About CDAC:

A C-DAC is a premier R&D organization under the Ministry of Electronics and Information Technology (MeitY), Government of India, established in 1988 to develop indigenous supercomputing technologies beginning with the PARAM series. Over the years, it has expanded into advanced domains including high-performance computing, electronics, software technologies, health informatics, bioinformatics, and large-scale education and training. C-DAC continues to play a strategic role in strengthening national technological capabilities through innovation and support to key national missions

FACULTY DEVELOPMENT PROGRAMME (FDP)
ON
High performance and cloud computing in life science: From genomics to health care

(25-03-2026 to 29-03-2026)

25-27 (Online) & 28-29 (Hands-on (Offline))

Organized by

CENTRE FOR TRAINING AND LEARNING, NIT Warangal

(Established under the PMMMNMTT Scheme, Ministry of Education, Govt. of India)

in association with

Department of Biotechnology, NITW

&

HPC – Medical & Bioinformatics Applications Group

Centre for Development of Advanced Computing (C-DAC), Pune

1. Name :
2. Designation :
3. Institution :
4. Email :
5. Mobile No :
6. Payment Details
   Reference No:
   Amount:
   Bank :
   Date:
7. Address for Correspondence:
8. Educational Qualification:
9. Subjects taught so far:
10. No. of refresher courses/workshops attended:
11. Experience (in years):
12. Teaching: Research: Industry:

Declaration

The information provided is true to the best of my knowledge. If selected, I agree to abide by the rules and regulations of the FDP and shall attend the course for the entire duration. I also undertake the responsibility to inform the coordinator in case, I am unable to attend the course.

Date:
Place: **Signature of the Applicant**

SPONSORSHIP CERTIFICATE

Dr. /Mr. /Ms.....is an employee of our Institute/Organization and is hereby sponsored to participate in the FDP on **"High performance and cloud computing in life science: From genomics to health care"**, sponsored by the Centre for Training and Learning (CTL) during **25 March 2026 to 29 March 2026** at NIT Warangal.

Signature of the Head of Institution (With Seal)

Address for correspondence

Prof. Thyageshwar Chandran, Dept. of Biotech. NIT-Warangal
Mobile: 7348975012 Email: thyagesh@nitw.ac.in
Prof. Soumya Lipsa Rath, Dept. of Biotech. NIT-Warangal
Mobile: 7978293479 Email: slrath@nitw.ac.in
Prof. Onkara Perumal, Dept. of Biotech. NIT-Warangal
Mobile: 9642808262 Email: popomal@nitw.ac.in
Dr. Vinod Jani (C-DAC, Pune)
Email: vinodj@cdac.in
Mr. Mallikarjunachari Uppuladinne (C-DAC, Pune)
Email: mallikarjunau@cdac.in

It is requested to all the delegates, after completion of application form, all the payment details, screenshot of the payment and scanned application form must be uploaded in the following online registration link.

Registration Link:
https://forms.gle/WevoASUoVZTczEKF9

For more details about CTL of NIT Warangal, please visit: https://nitw.ac.in/tlc

For more enquiries please contact:

Prof. M. Sailaja Kumari,
Professor and Head, CTL
Mobile: 0870 2462686
Email: ctl_hod@nitw.ac.in

Coordinators

Prof. Thyageshwar Chandran
Dept. of Biotech.
NIT-Warangal
☎: 7348975012
✉: thyagesh@nitw.ac.in

Prof. Soumya Lipsa Rath
Dept. of Biotech.
NIT-Warangal
☎: 7978293479
✉: slrath@nitw.ac.in

Prof. Onkara. Perumal
Dept. of Biotech. ,
NIT-Warangal
☎: 9642808262
✉: popomal@nitw.ac.in

Dr. Vinod Jani
Scientist F,
HPC-Medical & Bioinformatics Applications Group,
C-DAC-PUNE
☎: 9923276396
✉: vinodj@cdac.in

Mr. Mallikarjunachari Uppuladinne
Scientist E,
HPC-Medical & Bioinformatics Applications Group,
C-DAC-PUNE
☎: 9766261836
✉: mallikarjunau@cdac.in