

Short term course  
on  
**Next Generation Sequencing Data  
Analysis**

**December 17- 23, 2018**



Organized by:  
**Department of Biotechnology**  
**Motilal Nehru National Institute of Technology**  
**Allahabad**  
**ALLAHABAD, 211004, India**

**About the Institute**

Motilal Nehru National Institute of Technology Allahabad is an institute with total commitment to quality and excellence in academic pursuits. The institute has been granted the status of Institution of National Importance. It was established as Motilal Nehru Regional Engineering College (MNREC) in the year 1961 as a joint enterprise of Government of India and Government of Uttar Pradesh. MNREC was transformed into National Institute of Technology fully funded by Ministry of Human Resource Development, Gov. of India.

The institute offers B.Tech, M.Tech, Ph.D, M.C.A, M.B.A. and M.Sc. degrees in various disciplines of sciences, engineering, technology and humanities.

**About the department**

The Department of Biotechnology at MNNIT Allahabad was established as a new academic unit under Applied Mechanics in 2006 to offer B.Tech. degree in Biotechnology, with the objective of integrating life sciences with engineering and to develop cutting-edge technology through research, training and technological innovation. Keeping a beat to the global demands for researchers in this field, a full-fledged post graduate degree course (M. Tech in Biotechnology) was introduced in the year 2010. The department runs PhD program in biotechnology since 2009.

The department gained shape as an independent administrative 'Department of Biotechnology' on April, 2012. The department comprises of thirteen expert faculty members from diverse areas.

Externally funded projects from various government agencies viz. DST, DBT, UGC, MNRE, CSTUP etc. are ongoing in the department. The faculty members publish papers in National/International journals of repute. The department has independent state-of-art modular laboratories to perform experiments in Bioinformatics, microbiology, biochemistry, molecular biology, plant biotechnology and bioprocess technology.

**The city of Allahabad**

Allahabad is the sacred city of India where three *holy rivers namely Ganga, Yamuna and invisible mythological Saraswati meet*. The famous *Kumbh* is organised here where millions of people gather for holy bath. The Allahabad has been famous place of learning since long due to its world famous academic institutions.

**About the course:**

**Objective:** The course aims to provide upgradation of knowledge and skills for UG/PG students/research scholars/ faculties / scientists and other stake holders involved in genomics and NGS data analysis. The course will provide in depth exposure to them. The lectures will be delivered by distinguished experts of their field. The seven days short term course will include lectures and hands on training sessions on NGS data analysis.

**Short term course topics include:**

- NGS platforms, NGS data files and formats
- NGS bioinformatics workflow steps following sequence generation
- Experimental NGS design and planning for your bioinformatics needs
- NGS for genomics; assembly, alignment, QC and variant calling tools
- NGS for transcriptomics; QC, mapping, visualisation tools
- Introduction to RNA-seq and it's applications

**Duration:**

December 17- 23, 2018.

**Number of seats:** 20

**Accommodation:**

The participants may be provided accommodation in the institute guest house and/or hostel depending on the availability, on payment basis. Accommodation can also be booked in nearby hotels directly or through organizers.

**Food:** Lunch and tea will be provided to the participants during the course of workshop (charges are included in the registration fee).

**Eligibility:**

Undergraduate, post graduate, research scholars and faculty/scientist in biotechnology, agriculture, pharmaceuticals science bioinformatics, botany life sciences, medical sciences, environment sciences, or related disciplines.

**Mode of payment:**

Participants can make payment via DD in favour of **STC-NGSDA** payable at Allahabad OR Deposit the registration fee online in Account No. **718400301000333** of Vijaya Bank MNNIT Allahabad (Branch Code: 007184; MICR Code: 211029004; IFSC Code: VIJB0007184)

**Note:** Participants are encouraged to bring their own laptops during hands-on-training sessions.

**REGISTRATION FORM (STC NGSDA)**

**Personal Details:**

Title(Mr./Ms./Mrs./Dr.): .....

Gender(Male/Female): .....

Name: .....

Date of Birth: .....Age: .....

**Academic Details:**

Designation: .....

Qualification: .....

College/Institute/University: .....

Department: .....

City..... State: .....Country.....

**Contact Details:**

Address: .....

.....

.....Pin:

Phone/Mob.: .....

Email: .....

Accommodation Required: Yes/No

**Payment details:**

Demand Draft No: .....

Dated: ..... Drawn on.....

Total Amount in INR .....

**OR**

Online registration fee details

.....

.....

(Attach the DD or online payment receipt with form)

**Declaration:**

I am interested in attending this training course. All the information provided are correct.

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**(Signature of Applicant)**

**Note:**

Incomplete or registration form without demand draft shall be rejected

A separate registration form should be used for every delegate

Registration fee is non-refundable

**ORGANIZING OMMITTEE**

**Patron:** Prof. Rajeev Tripathi (Director)

**Chairman:** Head, Department of Biotechnology

**Course Coordinators:**

Dr. Nand kumar Singh

Dr. Ashutosh Mani

Dr. Sameer Srivastava

**Registration Fee:**

UG/PG/PhD student: Rs. 3000

Faculty/Scientist: Rs. 5000

Industry participants: Rs.10000

International participants: \$ 300

**Registration fees includes**

- ✓ Experiment material
- ✓ Lunch and tea
- ✓ Program kit

**How to reach MNNIT Allahabad:** The city of Allahabad is well connected with all parts of India by daily train, buses and flights.

**Contact:**

**Dr. Nand Kumar Singh**

**Dr. Ashutosh Mani**

**Dr. Sameer Srivastava**

Coordinators

**STC-NGSDA**

**Department of Biotechnology**

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