

**Three-Day Workshop on**  
**Open Source Tools in Bioinformatics**  
**21 – 23 January 2015**

**APPLICATION TO REGISTER**

Title ..... First Name .....

Last Name .....

Educational Status .....

Designation/Student.....

University/Institute.....

Address (Mailing).....

.....

City ..... State .....

Pin Code .....Tel/Mobile.....

Email(valid).....

**Accommodation required** (tick): yes / no

**DD Details**

No ..... Date .....

Issuing Bank .....

**Signature of Applicant**

Separate application form may be downloaded from the website.

**URL:** [www.bisr.res.in](http://www.bisr.res.in)

Last Date of Application:  
**15 January 2015**

**REGISTRATION INFORMATION**

**Timings:** 09:30 - 18:00 hrs

**Registration** 09:00 hrs Day 1

**Venue**

Mini Conference Hall,  
Birla Auditorium,  
Birla Institute of Scientific Research,  
Statue Circle, Jaipur 302001

**Fee:** Rs 2000/-

The fee includes course documentation as well as mid-session refreshments and lunch.

**On-spot registration** is available only in condition of availability of seat with late fees and prior information.

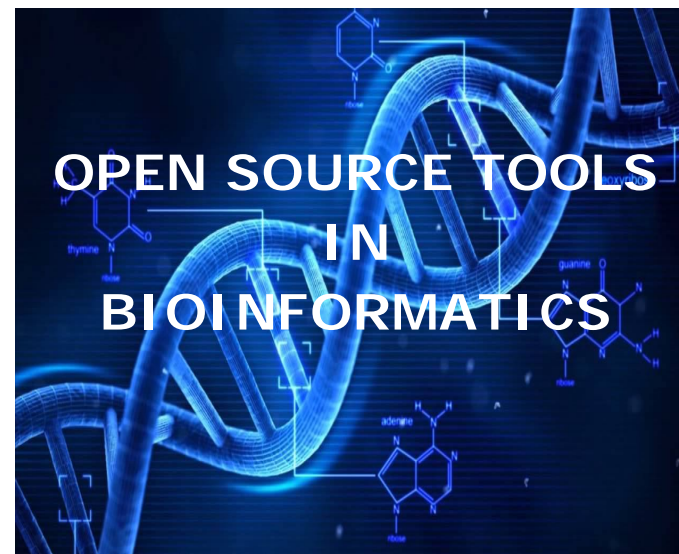
**Accommodation:**

Accommodation will be provided on written request to the convener and the participant will bear the cost of accommodation.

**Disclaimer**

In the event of circumstances beyond its control, the Management reserves the right to alter the program, the speakers, the date or the venue.

**BISR, Jaipur and BTIS Sub-DIC, DBT**  
**BIOINFORMATICS**  
**Training Programs'**



**21 – 23<sup>rd</sup> January 2015**



**Birla Institute of Scientific Research**  
**Jaipur**

*"Gain the competitive edge with practical experience and hands-on technical training."*

## PROGRAM DESCRIPTION

Today, a large number of open source tools are available related to different areas of Bioinformatics such as sequence analysis, genome analysis, gene finding, structural analysis, docking, molecular modeling etc.

Open source software is software that can be freely used, changed, and shared (in modified or unmodified form) by anyone. These tools have their source code freely available for further modification and enhancement. These tools can be redistributed to anyone under open source licenses like GNU General Public License (GPL). This open source helps to increase quality and usefulness of software via community review.

This workshop will enrich your knowledge with open source Bioinformatics software available for the analysis of biological sequence, Genome and Protein Structure. The objective of the program is to provide participants with an insight into tools through guided practical training. The workshop will feature morning lectures, demonstrations with evening hands-on session in the lab.

## TOPICS COVERED

- Introduction to Open Source Software
- Molecular Databases
- Similarity Searching: BLAST and FASTA
- Sequence Analysis
- Protein Structure Analysis
- Molecular Visualization & Analysis
- Protein Structure Prediction
- Homology Modeling of Proteins
- Molecular Docking and Drug Designing

## LAB EXERCISE

Database Searching, BLAST, Phylogenetic Analysis, Molecular Visualization and Analysis, Homology Modeling, Chemical Sketching and Molecular docking.

## WHO SHOULD ATTEND?

The participants of the course may be students, research scholars, faculty and industry personnel with background in Life Sciences and/or Information Technology. *The workshop is self-contained and does not assume any special knowledge of the subject.*

## TEACHING FACULTY

Besides BISR faculty, eminent guest speakers from renowned Bioinformatics Centres of India will deliver lectures and conduct demonstration on various aspects on Bioinformatics.

## HOW TO APPLY

Interested candidates may apply by sending filled application form along with the DD of Rs 2000/- in favor of **"The Birla Institute of Scientific Research"** payable at **"Jaipur"** latest by **January 15, 2015** to the Convener. The confirmation of participation will be informed through emails only. List of selected participants will also be displayed on the website. Selection criteria would be first come first serve. (Mark heading of your envelop with *"Bioinformatics workshop" 21 –23 January 2015.*)

**Note:** The number of participants is limited to **40** only.

For any query email at [workshop.bisr@gmail.com](mailto:workshop.bisr@gmail.com)

**Dr. P S Solanki**

Convener

Bioinformatics Workshop

Birla Institute of Scientific Research

Statue circle, Jaipur – 302001, Rajasthan (INDIA)

Tel: 0141-2385094 ext 324 (0), Fax: 0141-2385121

***A certificate of attendance for professional development will be given to each participant who completes the course.***

***"For more details visit [www.bisr.res.in](http://www.bisr.res.in)"***