

**A National Workshop on  
Basics of “R” for life sciences  
28<sup>th</sup> – 30<sup>th</sup> March, 2019**

**Registration Form**

1. Name (Dr./Mr./Ms): \_\_\_\_\_
2. Date of Birth: \_\_\_\_\_ M/F: \_\_\_\_\_
3. Designation: \_\_\_\_\_
4. Department/Institute: \_\_\_\_\_
5. Educational Qualifications: \_\_\_\_\_
6. Teaching/research area: \_\_\_\_\_
7. Address for Communication: \_\_\_\_\_
- Phone: \_\_\_\_\_
- E-mail: \_\_\_\_\_
8. Weather you have attended any training programme/ workshop in Bioinformatics earlier: \_\_\_\_\_
9. Registration Fees: \_\_\_\_\_
- DD.No.: \_\_\_\_\_ Date: \_\_\_\_\_
- Name of Bank : \_\_\_\_\_
11. Accomodation Required (Yes/No): \_\_\_\_\_

**Date:**

**Place:** (Signature of the Candidate)

**Signature of  
Principal/Head/Research Director**  
(For research scholars and faculty)

\*(A photocopy of the form may also be used)

**Important Dates**

Receipt of Application begins: 07-03-2019

Application Deadline: 23-03-2019 (Advance copy application along with a scanned copy of DD can be sent through E-mail. Registration will be confirmed only after DD is received).

Intimation of selection: 24-03-2019 (Selected candidates will be informed through E-mail).

**Venue**

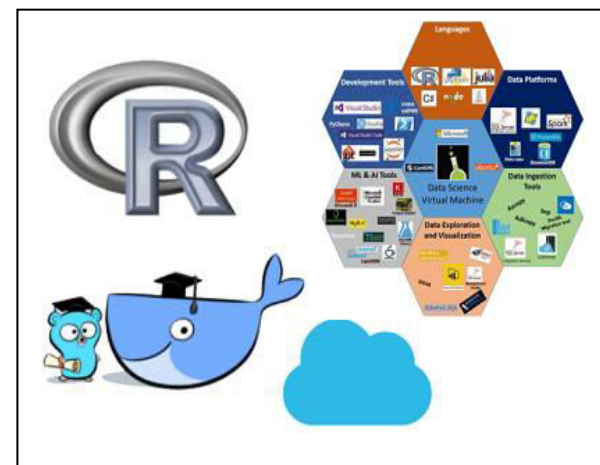
**Department of Marine Living Resources  
(Library Hall), Andhra University,  
Visakhapatnam-530 003**

**For any queries regarding programme,  
please feel free to contact**

**Coordinator, DBT-BIF Programme,  
Department of Marine Living Resources,  
Andhra University,  
Visakhapatnam-530 003,  
Andhra Pradesh, India  
Mobile: 9490794422  
Tel/Fax: 91-0891-2719121  
E-mail: [dbtbifau@gmail.com](mailto:dbtbifau@gmail.com)**



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Basics of “R” for life sciences  
28<sup>th</sup> – 30<sup>th</sup> March, 2019**



**Organized by**

**BIOINFORMATICS INFRASTRUCTURE  
FACILITY**

Dept. of Marine Living Resources  
Andhra University  
Visakhapatnam – 530 003  
Andhra Pradesh, India

**Sponsored by**



**Department of Biotechnology  
Ministry of Science & Technology  
Government of India, New Delhi**

## Background

The Department of Biotechnology (DBT), Ministry of Science & Technology, Govt. of India has been pleased to establish Bioinformatics Infrastructure Facility (BIF) under BTISnet programme for the promotion of Biology teaching through Bioinformatics at Dept. of Marine Living Resources Andhra University, Visakhapatnam, Andhra Pradesh in November; 2008. It provides services to the teachers, research scholars and students of the host University and other neighboring institutions in terms of networked computers with broadband internet connectivity in the retrieval of online and offline biological databases, bioinformatics software and tools. The Centre's facilities include dedicated Internet connectivity from BSNL, HP servers, HP PCs with windows 10 operating system, HP Printers, Xerox etc. It promotes research and developmental activities in major thrust areas like Sequence Alignment & Phylogenetic analysis, Molecular Modeling, Drug Designing and Vaccinology and also promotes marine bioinformatics works/research.

## Objectives of the workshop

In the post-genomic era, Life science career aspirants must equip themselves with tools and techniques for *efficient storage, processing and analysis of big 'Omics' data*. R is one of the widely used popular programming languages for biological data processing and analysis. The knowledge of *R will greatly help you* to meet the everyday challenges posed by your research data and can save a lot of your time and efforts to deal with it. Attending *Basic R for Life Sciences* workshop will enable you to learn basic concepts of R along with *hands-on experience* on solving biological data analysis problems. Trained by experienced research professionals from various life science domains, you will be introduced with its applicability to real-time problems.

## Topics Covered

1. Introduction to R
2. Data types
3. Data structure
4. Explore few inbuilt function
5. Data manipulation
6. Conditional statements
7. Loops(For loop)
8. Inbuilt functions for numeric data
9. Vector related inbuilt functions
10. String manipulation
11. Create your own function
12. File reading and writing
13. Data visualization
14. Basic statistics
15. Data manipulation using dplyr package
16. Packages
17. Case study

## Faculty

Faculty will include Experts from Industry.

## Methodology

Lectures, Demonstration by Hands-on sessions.

## Level of participants

Junior Research Scholars & faculty of Life Sciences whose research work is oriented around bioinformatics and post M.Sc. Bioinformatics candidates.

## Prerequisites

Participants should have fundamental understanding of at least one programming language and sound in computer operations.

## Number of Participants

Number of participants will be restricted to 25. Registration is on a first come and first served basis.

## Accommodation

Outstation participants will be given shared accommodation upon prior request with nominal charges (ranging from Rs. 200/- to Rs. 300/- extra per head per day) participants should pay for accommodation.

## Registration Fee:

**Rs. 300/-** for Research Scholars, Post doctoral fellows, post M.Sc. candidates(BIF) and **Rs. 1000/-** for faculty The registration fee includes training material and working lunch and tea for all the days of the Programme.

## How to apply?

Interested candidates can use the Registration form for applying. Applicants may submit their registration forms duly filled in, to the following (E-mail: [dbtbifau@gmail.com](mailto:dbtbifau@gmail.com)) through proper channel along with a write up (250 words only) of their knowledge in Bioinformatics and how they will be benefited by attending the workshop.

Demand Draft towards registration fees should be drawn in favour of "**Coordinator, DBT-BIF Programme**" payable at **SBI AU campus branch Visakhapatnam**.