

To

**Dr. A.K. Mishra**  
**Agricultural Knowledge Management Unit**  
**LBS Building**  
**Indian Agricultural Research Institute**  
**New Delhi - 110012**

### How to apply

Application for participation may be sent in the prescribed proforma duly forwarded by the competent authority of the institute / University where the candidate is employed / studying. Completed applications in all respect may be sent to the Course Director before 31<sup>ST</sup> December, 2015 at the following address. Scanned copy can also be send through Email.

#### **Dr. A. K. Mishra**

Sr. Scientist & Course Director

#### **Dr. Amrender Kumar**

Sr. Scientist & Course Coordinator

Agricultural knowledge Management Unit  
LBS Building,  
Indian Agricultural Research Institute,  
New Delhi-110012  
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**Email:** akmishra@iari.res.in,  
akmishra.agri@gmail.com

**Website:** www.iari.res.in

**Maximum no. of participants: 20**

#### **Important Dates**

Last date for receiving Application: **31<sup>ST</sup> December, 2015**  
Intimation of Selection : **02<sup>nd</sup> January, 2016**  
Duration of workshop : **11<sup>th</sup>- 13<sup>th</sup> January 2016**



**WORKSHOP CUM TRAINING**

**ON**



## **BIOINFORMATICS TECHNIQUES FOR AGRICULTURAL DATA ANALYSIS**

**11<sup>th</sup> – 13<sup>th</sup> January, 2016**

**SPONSORED BY**



**DEPARTMENT OF BIOTECHNOLOGY  
GOVERNMENT OF INDIA**

**ORGANIZED BY**

**AGRICULTURAL KNOWLEDGE MANAGEMENT UNIT  
INDIAN AGRICULTURAL RESEARCH INSTITUTE  
NEW DELHI-110012**

## Background and Objectives

The Agricultural Knowledge Management Unit, Indian Agricultural Research Institute, New Delhi has been established in 2003 by merging Bioinformatics Centre (BIC), Unit of Application Systems Simulation (UASS) and Network Centre of the Institute. This centre is working as distributed information centre (DIC) under BTIS network project funded by DBT with the mandate to work on plant science domain. The onset of genomics is providing massive information to improve crop phenotypes. The accumulation of sequence data allows detailed genome analysis by using proper database management systems and accessing strategies by using flexible user friendly information retrieval systems.

Sequence databases clearly show extensive conservation of genome information across species. Bioinformaticians goal is to identify the sequenced genes and deduction of their functionality based on data analysis. This information enables new strategies to study gene expression pattern in plants.

Available information from new technologies will help a lot to researchers in agriculture domain to predict initial clues toward unknown regulatory phenomena.

A Workshop cum training on "Bioinformatics Techniques for Agricultural Data Analysis" will be organized during 11<sup>th</sup> – 13<sup>th</sup> January 2016 at AKMU, IARI, New Delhi - 110012. The program will be sponsored by Department of Biotechnology, Government of India for teachers/scientists/researchers/students of reputed Universities/Institutes.

## Workshop Topics

The main objective of this workshop cum training is to familiarize different computational tools and techniques for data mining in the field of agriculture sciences to scientists, teachers and research scholars.

The main topics which will be covered in this workshop are:

- Introduction to Bigdata & Cloud Computing
- Biological data mining
- Concept and application of machine learning techniques in bioinformatics,
- Tools and techniques for bio-molecular prediction.

A series of lectures and presentations will cover the above mentioned topics by experts from IARI, IIT, DU, JNU, IASRI, NBPGR etc. Demonstration of specific bioinformatics tools in agriculture will be an important component of the workshop cum training.

There is **NO** Registration fee for the workshop. Accommodation will be arranged in IARI, **guest house** on request on first come first serve basis, However travel and boarding / lodging charges will have to be borne by the participants/sponsoring institution.

## Application Form:

1. Full Name (block letters):
2. Designation:
3. Date of birth:
4. Sex (Male/ Female):
5. Address for correspondence:
6. Email / Telephone number etc.:
7. Educational qualifications:
8. Professional experience:
9. Computer proficiency:
10. Current Area(s) of Research:
11. Do you need accommodation at IARI: Yes / No
12. Tentative date(s) of arrival & departure:

Signature of Applicant with date

### Certificate and recommendation by the forwarding authority

It is certified that the information provided above is verified and found correct. The applicant is recommended & nominated for attending the workshop cum training at IARI.

**Date**

**Place:**

Signature with seal of the Authority