



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान
(भा.कृ.अ.प.)
लाइब्रेरी एवेन्यू, नई दिल्ली-110012 (भारत)
INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE
(I.C.A.R.)
LIBRARY AVENUE, PUSA, NEW DELHI-110012 (INDIA)



डॉ. उमेश चन्द्र सूद
निदेशक (कार्यकारी)
Dr. U.C. SUD
Director (Acting)

No. DIR/IASRI/CAFT/TRAINING-2014-15
Dated: 20 June, 2014

सेवा में,

- भा.कृ.अ.प. संस्थानों/रा.अनु.केन्द्र/परियोजना निदेशालय/ब्यूरो के निदेशक
- राज्य कृषि विश्वविद्यालय के कुलपति/संकायाध्यक्ष/निदेशक (अनुसंधान)

विषय : उच्च प्रशिक्षण संकाय केन्द्र (काफ्ट) के अन्तर्गत भारतीय कृषि सांख्यिकी अनुसंधान संस्थान, नई दिल्ली द्वारा "सांख्यिकीय आनुवांशिकी में आधुनिक विकास" पर प्रशिक्षण ।

श्रीमान/श्रीमती,

भारतीय कृषि सांख्यिकी अनुसंधान संस्थान (काफ्ट) द्वारा सांख्यिकीय आनुवंशिकी में आधुनिक विकास में एक प्रशिक्षण कार्यक्रम नई दिल्ली के तत्वाधान के अन्तर्गत 03 से 23 फरवरी, 2015 को आयोजित किया जा रहा है।

प्रशिक्षण कार्यक्रम का उद्देश्य ये है कि विभिन्न नवीनतम मात्रात्मक आनुवंशिकी और सांख्यिकीय जेनोमिक्स के क्षेत्र में तथा विभिन्न उच्च सांख्यिकीय सॉफ्टवेयर पैकेज का यथावत अनुभव के साथ प्रयोग करके मुख्य रूप से कृषि में प्रभाव को बल देना है। यह उनके लिये लाभदायक होगा जोकि अनुसंधान, अध्ययन एवं प्रशिक्षण को और अधिक विकसित करना चाहते हैं।

आपसे अनुरोध है कि कृपया आप अपने संस्थान/संगठन/विश्वविद्यालय से एक या दो वैज्ञानिक प्रशिक्षण कार्यक्रम में प्रतिभागिता करने हेतु मनोनीत करें जो अभ्यर्थी निर्धारित पात्रता संबंधी मापदण्डों को पूरा करते हैं जोकि नामांकन (ब्रोशर) में दिया है। इस प्रशिक्षण कार्यक्रम के लिये 25 प्रतिभागियों को चुना जायेगा। मनोनीत प्रत्याशियों का निर्धारित आवेदन प्रपत्र (प्रपत्र ब्रोशर के साथ संलग्न है) में भरकर 30 नवम्बर, 2014 से पूर्व निम्नलिखित में से किसी भी पते पर भिजवाने की कृपा करें:

- डॉ. यू.सी.सूद, निदेशक
भा.कृ.सां.अ.सं., लाइब्रेरी एवेन्यू, पूसा, नई दिल्ली-110012
ई-मेल: director@iasri.res.in
दूरभाष: 011-25841479, फैक्स: 011-25841564
- डॉ. ए.के. पॉल, प्रमुख वैज्ञानिक एवं पाठ्यक्रम संयोजक,
भा.कृ.सां.अ.सं., लाइब्रेरी एवेन्यू, पूसा, नई दिल्ली-110012
ई-मेल: pal@iasri.res.in,
मोबाइल: +91-9818018731

भवदीय,


(उमेश चन्द्र सूद)

प्रति:

उप-महानिदेशक (शिक्षा)/सहा-महानिदेशक(एच.आर.डी.) को सूचनार्थ ।



भारतीय कृषि सांख्यिकी अनुसंधान संस्थान
(भा.कृ.अ.प.)
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डॉ. उमेश चन्द्र सूद
निदेशक (कार्यकारी)
Dr. U.C. SUD
Director (Acting)

No. DIR/IASRI/CAFT/TRAINING-2014-15
Dated: 20 June, 2014

To

- (i) Directors of I.C.A.R. Institutes / Project Directorates / National Bureaux / N.R.C.s
- (ii) Vice - Chancellors/Deans / Directors (Research) of State Agricultural Universities

Subject: Training on “Recent Advances in Statistical Genetics” under Centre of Advanced Faculty Training (CAFT) at IASRI, New Delhi.

Dear Sir/ Madam,

Indian Agricultural Statistics Research Institute (IASRI), New Delhi is organizing a training programme on “Recent Advances in Statistical Genetics” under CAFT during **03 to 23 February 2015**.

The aim of the training programme is to provide exposure to the participants with the recent developments in the field of quantitative Genetics and Statistical Genomics and also to provide hands on experience using advanced statistical software packages. This will help them in upgrading their capabilities in research, teaching and training.

I request you to kindly nominate one or two scientists of your Institute/Organization/ University engaged in the relevant fields who fulfill the eligibility criteria as given in the enclosed Brochure for participation in the training programme. In all, **25 participants** are to be taken for this training programme.

The nomination of the candidates in the prescribed application form may please be sent so as to reach the undersigned by **30 November, 2014** to the following addresses:

1. Dr. U.C. Sud, Director (Acting)
IASRI, Library Avenue, Pusa, New Delhi-110012
Phone No. : 011-25841479 (O); Fax No.:011-25841564
Email: director@iasri.res.in;
2. Dr. A.K. Paul, Principal Scientist & Course Director
I.A.S.R.I, Library Avenue, PUSA, New Delhi - 110012
E-mail: pal@iasri.res.in
Mobile: +91-9818018731

Yours sincerely,


(U.C.SUD)

Copy to:
DDG (Education)/ ADG (HRD), ICAR for kind information

Application form for Admission to Training Programme on
"Recent Advances in Statistical Genetics"
(03-23 February, 2015)

1. Name (in BLOCK LETTERS): _____
2. Whether or not belong to N.A.R.S _____
3. Designation and Basic Pay: _____
4. Length of service _____
5. Present Employer's Address: _____
6. Address for Correspondence: _____

7. E-mail Address: _____
8. Telephone Number (Mobile)/(O)/(R): _____
9. Date of Birth: _____
10. Gender (Male/ Female): _____
11. Educational Qualifications:

Degree	Subject	Year	Class or Division & % or Equivalent	Board/ Institute/ University
Bachelors				
Masters				
M. Phil.				
Ph.D.				
Post Doc.				
Any Other				

12. Level of Knowledge of Statistics : _____
13. Level of Knowledge of Computer Application: _____
14. Length of Service: _____
15. Participation in Training programmes (Details) during past one year _____

Signature of the Applicant with Date

CERTIFICATE

It is to certify that information furnished above is correct .

Signature:

(of recommending authority with date along with seal)

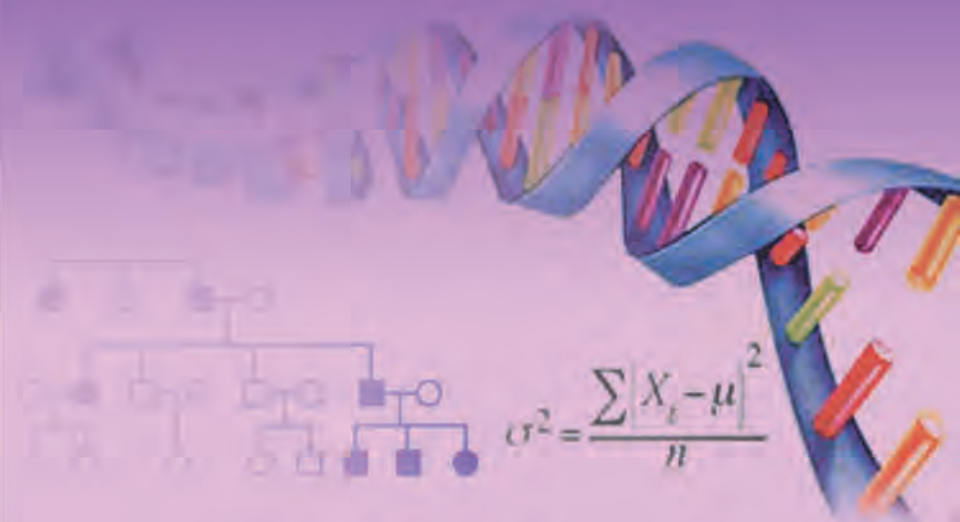
Please send the Application form duly filled in through proper channel to any one of the following:

- 1) Dr. U.C Sud, Director (A)
IASRI, Library Avenue, Pusa, New Delhi – 110 012
Phone No.: 011-25841479, Fax No.: 011-25841564
E-mail: director@iasri.res.in
- 2) Dr. A.K. Paul, Principal Scientist & Course Director
IASRI, Library Avenue, Pusa, New Delhi – 110 012
Mobile: +91-9818018731
E-mail: pal@iasri.res.in

ANNOUNCEMENT

CENTRE OF ADVANCED FACULTY TRAINING on RECENT ADVANCES IN STATISTICAL GENETICS

03-23 February, 2015



Course Director : Dr. Amrit Kumar Paul
Co- Course Director : Dr. Ranjit Kumar Paul

VENUE: IASRI, NEW DELHI



DIVISION OF STATISTICAL GENETICS
INDIAN AGRICULTURAL STATISTICS RESEARCH INSTITUTE
(ICAR)
LIBRARY AVENUE, PUSA, NEW DELHI -110 012
Please visit: www.iasri.res.in



OBJECTIVES:

The proposed training programme aims at

- To provide advance training to the participants on the current developments in Statistical Genetics and Statistical Genomics and upgrade their research and teaching skills
- To familiarize the participants with the statistical and computational tools / software used for data analysis in breeding, genetics, genomics and bioinformatics.

Besides the above mentioned objectives, an opportunity will be provided to all the participants to exchange their ideas to specialists/teachers with a view to increase contacts and thus developing understanding among each other's achievements and problems.

COURSE CONTENTS:

The course has been structured in a series of modules with classroom lectures and practicals on computer, including the demonstration of statistical software packages. Course material will be provided to all the participants. The participants will be given an opportunity to present their experiences and the problems faced in their fields. The participants may bring their relevant experimental data sets so that these may be analyzed and the results so obtained be discussed during the course.

Module 1: Some Preliminaries

- Statistical Methods and Inference
- Quantitative Genetics and Population Genetics
- Statistical Genomics
- Selection for Genetic Improvement

Module 2: Statistical Software Packages

- SPSS
- SAS
- R software
- JoinMap, MapQTL, CLC Genomics work bench, ClustalX, etc
- Statistical Packages for Plant/Animal Breeding Data-SPAR&SPAB

Module 3: Advanced Statistical Methods in Breeding and Genetics

- Mating Designs and Analysis of Breeding Data
- Robust Estimation of Genetic Parameters in Plant/ Animal Breeding
- Genotype x Environment interaction in Crop/ Animal Improvement
- Mixed Models in Quantitative Genetics
- Multivariate Techniques AMMI & Others

Module 4: Statistical Techniques in Genomics

- Detection and Estimation of Quantitative Trait Loci (QTL)
- Statistical Techniques in Whole Genome Association (WGA) Analysis
- Machine Learning Approaches (Supervised and Un-supervised) for Analysis of High Dimensional "Omics" Data
- Penalized Regression and Random Forest methodologies for Genomic Selection

Module 5: Miscellaneous Topics

- Statistical Modelling in Genomics
- Sequence Alignment and Protein Structure Prediction
- Analysis of Microarray Data
- Next Generation Sequence Analysis

ELIGIBILITY

The candidates must possess Master's degree in any discipline of Agricultural Sciences/ Statistics or Allied fields. A fair working knowledge of the application of statistical techniques and experience in the use of computers is essential. He/She should be working in a position not below the rank of Assistant Professor/Scientist in National Agricultural Research System (N.A.R.S.) which includes ICAR Institutes/State Agricultural Universities/Directorates/NRCs/State KVKs/Central Agricultural Universities, etc.

GENERAL INFORMATION

Indian Agricultural Statistics Research Institute is a premier Institute of Indian Council of Agricultural Research which is responsible for promoting and conducting research and imparting education/training in the field of Agricultural Statistics, Computer Applications and Bioinformatics. The institute has equipped itself with the latest and modern facilities of computing, library and accommodation to meet the requirements in the changed scenario.

Any person desirous of participating in the course and fulfilling the eligibility conditions may submit a duly filled application form (format is given in the broacher) through proper channel. The participants will be paid to and fro travel fare for the journey by **Train** as per their entitlement for the class of travel restricted, however, to the maximum of **AC II tier fare only (Excluding Rajdhani and Shatabdi)** or bus or any other means of transport in vogue as the case may be, if the same is not borne by the sponsoring organizations. Free boarding and lodging will be provided to participants during the training programme as per ICAR's guidelines on summer school. The participants are advised not to bring family members with them. The maximum number of participants allowed to admit in the above training is **25 (twenty five)** only. **Last date for receipt of application is 30th November, 2014.**