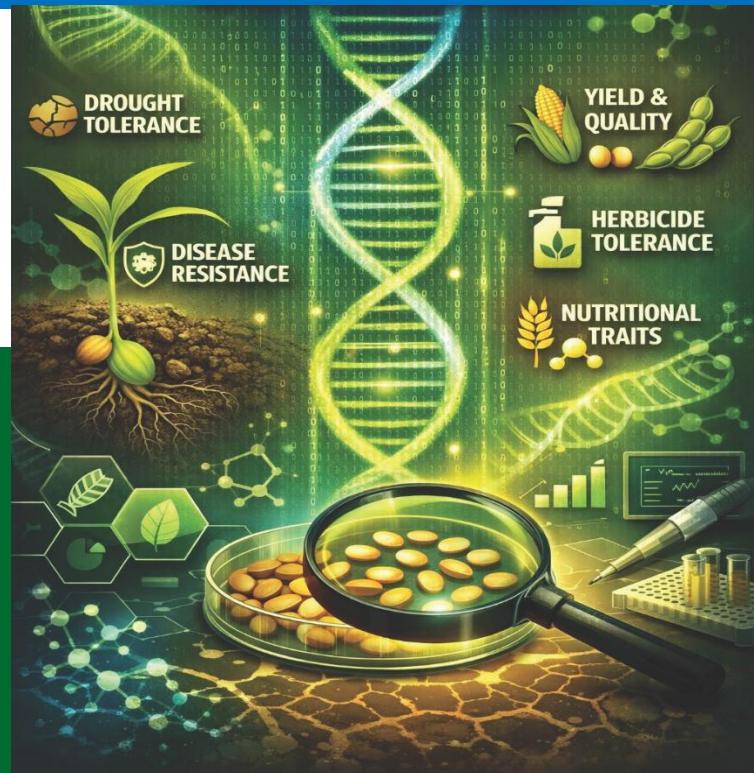




ICAR HRD Sponsored 10 Days training on
**Genomics-Driven Innovations
in Seed Science and Trait
Improvement in Crop Plants**

February 18th to 27th, 2026



Chief Patron

Dr. A. Anandan, Director

Course Director

Dr. C. Gireesh,

Principal scientist and In-Charge

Course Coordinators

Dr. Shantharaja C. S., Senior Scientist

Dr. Ramya P, Senior Scientist

Dr. Bhojaraj Naik, Senior Scientist

Dr. Hemavathi Ranebennur, Senior Scientist

Dr. Gopal Reddy, Senior Scientist

Dr. Manjanagouda S. Sannagoudar, Scientist

Organized by

**ICAR-National Institute of Seed Science and Technology (NISST)
Regional Station, Bengaluru**

ICAR HRD Sponsored 10 Days training

Genomics-Driven Innovations

in Seed Science and Trait Improvement in Crop Plants



About the Training Programme

Advances in crop genomics have revolutionized seed science and crop improvement by enabling precise understanding of genetic variation, seed quality attributes, and trait inheritance. Genomics-assisted breeding tools such as next-generation sequencing (NGS), genome-wide association studies (GWAS), genomic selection, and functional genomics are increasingly being integrated into seed development, testing, and varietal improvement programmes. This training programme is designed to equip scientists, breeders, seed technologists, and students with contemporary knowledge and practical insights into genomics-driven innovations for enhancing seed biology and physiology, quality, vigor, stress resilience, and productivity in crop plants.

Course outline

- Fundamentals of plant genomics and genome organization
- Next-generation sequencing technologies and data interpretation
- Genomics of seed development, dormancy, and germination
- Molecular basis of seed vigor, longevity, and storability
- Marker-assisted selection (MAS) and genomic selection (GS)
- Genome-wide association studies (GWAS) for seed and yield traits
- Functional genomics and transcriptomics in seed biology
- Integration of genomics with phenomics and seed quality testing
- Bioinformatics tools and resources for plant genomics research

How to Apply

Applications must be submitted in the prescribed format and forwarded by the competent authority of the sponsoring ICAR/SAU/CAU/Research institute. Candidates may send an advance copy; however, final selection requires the formally forwarded application within the last date.

Last date for applications: 30.01.2026

Intimation of selection: 05.02.2026

No registration fee is applicable. Selected candidates must confirm participation immediately

Eligibility

Open to scientists from ICAR institutes, SAUs, CAUs and research institutions. A maximum of 25 participants will be selected as per ICAR guidelines. The selection committee's decision will be final.

Location

The programme will be conducted at ICAR-National Institute of Seed Science and Technology (NISST), Regional Station, GVK Campus, Bengaluru. India's premier institution in seed science and technological research. Bengaluru weather during the training period is expected to be cool (20-30°C).

Travel, Boarding & Lodging

Boarding and lodging of selected participants will be supported as per ICAR norms. Travel allowance is to be borne by the sponsoring institute. Shared accommodation will be arranged at Suvarna Raita Bhavana or other guest houses within the UAS, GVK Campus, Bengaluru.

Venue

ICAR-National Institute of Seed Science and Technology (NISST), Regional Station, GVK Campus, Bengaluru.

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Genomics-Driven Innovations in Seed Science and Trait
Improvement in Crop Plants**

Applicant Format for Participation

ICAR HRD UNIT SPONSORED 10 DAYS TRAINING “GENOMICS-DRIVEN INNOVATIONS IN SEED SCIENCE AND TRAIT IMPROVEMENT IN CROP PLANTS” FROM FEBRUARY 18TH TO 27TH, 2026.

APPLICANT FORMAT FOR PARTICIPATION IN WINTER SCHOOL

1. Name (in block letters):
2. Designation:
3. Mobile no. and Email:
4. Present employer address:
5. Address to which reply should be sent (in block letters):
6. Permanent address:
7. Date of birth:
8. Sex:
9. Marital status:
10. Teaching / research / professional experience (mention post held) during last 5 years:
.....
11. Present area of research and number of publications:
12. Relevance of training to present academic and research activities:

Signature of applicant Place:

Date:

Recommendations of forwarding Institute

Signature:

Designation:

Address:

Date:

Certificate

It is certified that the information furnished by the office was found correct.

Genomics-Driven Innovations in Seed Science and Trait Improvement in Crop Plants



Important

Please send an advance copy of the application, followed by the formal approval order, to iiissrsblrhead@gmail.com by 30.01.2026

Correspondence should be directed to

Dr. C. Gireesh
Principal scientist and In-Charge
ICAR-National Institute of Seed Science and Technology (NISST),
Regional Station, Bengaluru
Mob: 8374236328

Dr. Shantharaja CS
Senior Scientist
ICAR-National Institute of Seed Science and Technology (NISST),
Regional Station, Bengaluru
Mob: 9008749131