Department of Science and Technology
Ministry of Science and Technology
Government of India

Implementation Guidelines

for

Research Exposure cum Training Programme for Students from North-Eastern and UTs of Jammu and Kashmir and Ladakh under INSPIRE Scheme

Innovation in Science pursuit for Inspired Research (INSPIRE)

This document providesguidelines for implementation of **Research Exposure cum Training Programme for Students from North-Eastern and UTs of Jammu and Kashmir and Ladakh** under INSPIREScheme of DST

The Department of Science and Technology (DST) reserves the right to review and modify these guidelines as and when required.

Guidelines

1. Brief of Programme:

To promote research culture among students pursuing post-graduation courses in various science and technology streams in North-Eastern States and UTs of Jammu and Kashmir and Ladakh, a special Initiative under the "Innovation in Science Pursuit for Inspired Research (INSPIRE)"scheme of Department of Science and Technology (DST) has been taken. It is the need of hour to interact with these young minds at Masters' level and imbibe culture of research in them to pursue career in scientific research and development. The programme focuses on providing training to the talented youth from the states of Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura (North-Eastern States), UT's of Jammu and Kashmir and Ladakh for pursuing research career in frontier areas of Science Technology and Innovation.

INSPIRE Research Exposure cum TrainingInitiative includes:

-Interactions of students with the pioneers of the respective research areas which will provide a valuable learning experience and insight into the advances in the respective thrust areas.

-Hands on working experience on high end R&D equipment (s) available in the respective host institutes/organizations which will provide them exposure to take up research and prepare them for writing quality proposal for seeking research funding.

-To prepare them for competitive examinations for Ph.D. programs
-To guide students through a short term research oriented project.

It is hoped that gaining skills and experiences from the above will improve their research vision and confidence to take up research problem in the frontier areas of research and after the training many students will come forward to take scientific research as a career.

2. Broad Outline of Exposure cum Training Content:

Participants have to be provided exposure about frontier areas of research by the pioneers in the area including exposure to the infrastructural facilities for pursuing research work. They will also be provided training to get associated with an ongoing research project and they have to assist in its implementation. Sample preparation, analysis and interpretation of results can be assigned on a real-life project to work on, and be expected to perform the required tasks within the unit. The training content should be designed in a way which enables post graduate level students to understand the research challenges and help them to gain knowledge and skills needed to succeed in the preferred STI domain of Research and Development.

During and after the training, participants will also be provided with comprehensive feedback on their performance. After the end of the training, participants will be provided a "Training Certificate" which recognises the experience they have gained on the respective academic and research transcript. Training Certificate should indicate that the programme is supported by DST.

This being a new and special initiative, it may be implemented on pilot scale in first phase.

3.Programme Implementation:

This being a new initiative, in the first phase, the following Organizations/Instituteshave been selected to conduct training programme in subject areas as**lead role player** as given below:

S. No.	Name of Organization/Institute	Subject/Discipline
1.	Jawaharlal Nehru Centre for Advanced Scientific Research (JNCASR), Bengaluru	Physical Sciences
2.	CSIR-Indian Institute of Chemical Technology (IICT), Hyderabad	Chemical Sciences
3.	International Advanced Research Centre for Powder Metallurgy and New Materials (ARCI), Hyderabad	Engineering Sciences
4.	SreeChitraTirunal Institute for Medical Sciences and Technology (SCTIMST), Thiruvananthapuram	Biomedical Sciences
5.	CSIR-North East Institute of Science and Technology (NEIST), Jorhat	AI and Machine Learning

Lead role playing Institution (s)/organisation(s) will identify 2-4 institutes/organizations for giving exposure to different experimental and field activities in their respective fields.

In addition, students undergoing the "Research Exposure cum Training Programme"will be provided exposure pertaining to the Standards and Related Areas by the Think, Nudge and Move Department of Bureau of Indian Standards (TNMD-BIS), New Delhi.If required, DST can provide an introductory letter for better hand holding with BIS.

4.Students Eligibility Criteria

Students from the states of Arunachal Pradesh, Manipur, Meghalaya, Mizoram, Nagaland, Sikkim, Tripura (North-Eastern States), UT's of Jammu and Kashmir and Ladakh pursuing post graduation courses in S&T streams and have appeared for the Post Graduate degree final examination in the current year or passed the postgraduation course in the previous year are eligible for thisprogramme.

5. No. of students in a Batch/Institute: 25 Max.

6. Duration of Programme: 3 months Max.

7. Student's Selection Mechanism:

Heads of Departments (HoDs) in S&T faculties of universities/academic institutions from respective states and UTs will nominate students for the training programme. HoDs of S&T departments of the university/academic institution may nominate 2 or 3 students in the related S&T subject area based on students' academic credentials, their interest in understanding good practices for research, training, and mentoring, professional development and networking opportunities, and experience a new research environment etc.

8. Programme Application Process:

Identifiedinstitution(s)/Organisation(s) are required to be submit proposal(along with its annexures) in DST prescribed format duly signed by the Nodal Officer and Head of the Institute/organisationon https://online-inspire.gov.in.

Hard copy of the submitted proposal along with its annexures should be sent through post to: Dr. Umesh Kumar Sharma, Scientist-F, **INSPIRE division, DST,** New Delhi-110016

9. Financial Support:

Full cost of the training programme shall be borne by DST. Financial support shall be provided to each identified lead role paying organization/institute @ Rs.1 Lakh per trainee participant (estimated). Selected studentswill be paid a stipend of Rs.5,000/- per month in addition to their travel and logistic expenses for the entire duration of training. Financial support @ Rs. 1 lakh/student includes Boarding and Lodging, TA/DA (Experts & Participants), Stipend for the participants, Consumable, Contingency, Honorarium for experts and Overhead Charges. Eighty percent of the financial support will be released in advance and remaining 20% at the time of settlement upon receipt of the requisite completion reports.

10. Programme Completion Report:

It is the responsibility of the organization/institute to submit **Research Exposure cum Training Programme** Completion Report(s), Statement of Expenditure (SE)/ accounts, Utilisation Certificates (UC) etc. upon the completion of training programmewithin three months of completion date of the programme to the DST.

Note: This being a new initiative, guidelines may be revised based on the experience of first phase.

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