सीएसआईआर - राष्ट्रीय भूभौतिकीय अनुसंधान संस्थान
(वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्)
उप्पल मार्ग, हैदराबाद, तेलंगाणा, भारत – 500007

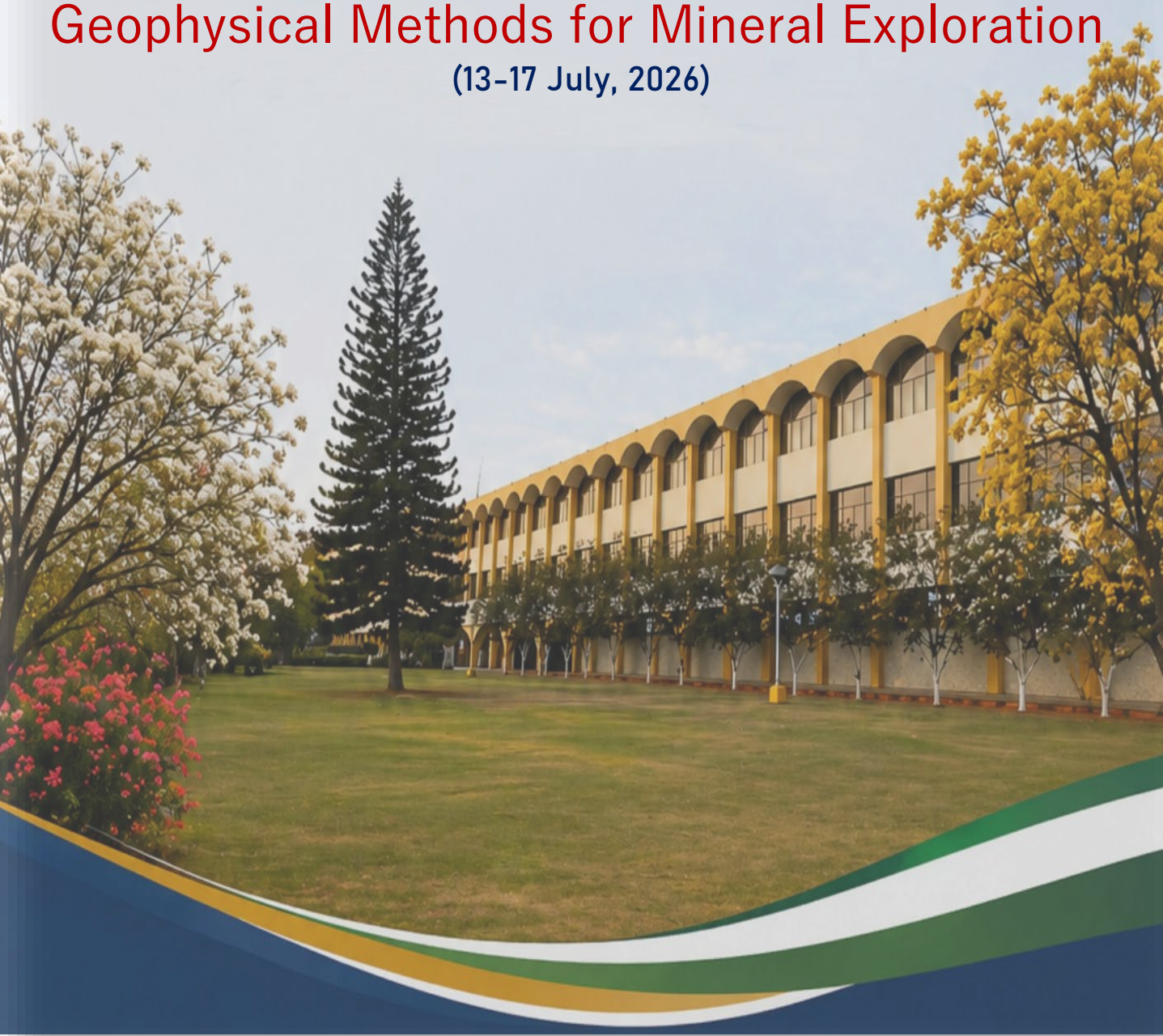
CSIR - National Geophysical Research Institute
(Council of Scientific & Industrial Research)
Uppal Road, Hyderabad, Telangana, India-500007

प्रशिक्षण कार्यक्रम
(सीएसआईआर की एक एकीकृत कौशल पहल)

Training Program
(CSIR-Integrated Skill Initiative)

Geophysical Methods for Mineral Exploration

(13-17 July, 2026)



About CSIR-NGRI

The CSIR-National Geophysical Research Institute (CSIR-NGRI), a constituent research laboratory of the Council of Scientific & Industrial Research (CSIR) was established in 1961 with the mission to carry out research in multidisciplinary areas of the highly complex structure and processes of the Earth system and its extensively interlinked subsystems. NGRI has the mandate to conduct research for public-good science to enable government agencies, public and private sector stakeholders to make informed decisions about use of geo-resources sustainably and improve preparedness and resilience to natural hazards.

As a close understanding of Earth processes and its intersections with the growth and development of the human society only can secure the future, it is our vision to develop the knowledge base of Earth system processes and apply it to produce strategies to minimize loss of life and property from natural disaster as well as manage water, energy, and mineral resources for enhancing the quality of life.

The research activities fall broadly under three themes: **Geodynamics**, which revolve round investigating and modeling fundamental aspects of the Earth system and processes, **Earthquake Hazards**, which encompass features on the surface and subsurface of crust which may potentially endanger lives and properties through catastrophes like earthquakes and landslides as well as deterioration in pollution levels of groundwater and soil, changes in climatic conditions and associated environmental issues. The theme **Natural Resources** comprise of implementation of techniques to identify primary geo-resources, which are the pillars of human civilization and fount of economic growth like groundwater, hydrocarbons as well as alternate energy sources and minerals.

The Institute is structured into seven major R&D Groups and twenty one Activities, which include expertise in a variety of geophysical, geochemical, geological techniques like Seismology, Magnetotellurics, GPS, Paleo-seismology, Structural geology, Controlled Source Seismics, Gravity and Magnetics, Geochemistry, Geochronology, Paleomagnetism, Planetary, Polar Geophysics, Geomagnetism, Airborne geophysics, Shallow subsurface geophysics and Rock Mechanics, Hydrochemistry, Paleo-environmental studies and Modeling and simulation of Earth processes.

1. About the Training Program

This course is designed for the people working in academia and industry who wish to develop skills for geophysical methods used for mineral prospecting. During the training, several geophysical methods will be discussed in detail by combining lectures and practical classes. Participants will get the exposure for handling the instruments within NGRI campus. Instruction will be given keeping in mind the real field conditions. Overall, this training will enhance your ability to use geophysical methods for mineral exploration and get you at par with the skills demanded by industry. The course will involve theory combined with field and practical classes. A brief list of geophysical methods which will be covered in this course are: 1) Gravity and Magnetics, 2) Magnetotelluric, 3) Electrical Resistivity Tomography, 4) Self and Induced Potential (SP & IP) methods, 5) Electrical Vector Resistivity Imaging (EVRI). The course will be taught by the NGRI scientists working in relevant research field.

Methods of Instruction:

Instruction methods involve show-how, hands-on practice, and field problems. Field demo in campus and hands-on training to provide an awareness of real field conditions. The medium of instruction will be in English.

Faculty:

The training will be conducted by experts at NGRI and other universities with extensive experience.

Selection Procedure:

Selection will be on a first-come, first-served basis, subject to seat availability.

Sponsorship:

Established academic institutions/Government organizations/ industrial sectors are welcome to sponsor candidates of their interest.

Duration : 5 Days
Mode of Training Course : Offline
Number of Seats : 30
Certification : A certificate will be issued to the participants for the successful completion of the course

Venue: CSIR- National Geophysical Research Institute, Uppal Road, Hyderabad - 500007.

2. Eligibility

The Program targets individuals who desire to acquire high-level skills in Geophysical Methods for Mineral Exploration and their application in various fields such as Gravity and Magnetics, Magnetotelluric, Electrical Resistivity Tomography, Self and Induced Potential (SP & IP) methods and Electrical Vector Resistivity Imaging (EVRI).. We emphasize practical work applications.

Educational Qualifications:
Bachelor Degree/ Diploma/ Master's in Geology/ Geophysics/ Physics/ Pursuing a Doctorate or Higher Education/ Faculty or Industry sponsored in respective fields.

Nationality: Indian

3. Technical Requirements

Participants will be introduced to various Geophysical Methods for Mineral Exploration and their application in various fields from basic to advanced. Therefore participants are requested to bring their own laptops with good computational power (>8 GB RAM), Windows OS/Linux.

4. Required Documents

The interested candidates may apply through online link given below: (https://www.ngri.res.in/cms/skill-development.php) and has to upload the following documents in the application form:

1. Proof of age (SSC/Aadhar Card/Pan Card)
2. A copy of last examination passed
3. ID proof (College/ Institute/ Employer) & Address proof (Aadhar Card)
4. No Objection Certificate (NOC) from the Institution / Employer
5. Self Declaration form (for those candidates who are currently not pursuing any higher degree or unemployed/not getting any fellowship).

5. Important Dates

Duration: 13-17 July, 2026

Last Date for Applying: 7 July, 2026

6. Charges

Course Fee:

- Rs. 1500/- +18% GST= 1770/- (for those who are pursuing the Bachelor's/Master's degree)
- Rs. 3,000/- + 18% GST = 3540/- (for those candidates who completed their Master's or pursuing Ph.D or working as Project Assistant/Associate/Senior Project Associate)
- Rs. 6,000/- + 18% GST = 7080/- (for those candidates who have completed their Doctorate degree or pursuing Post Doctorate or Faculty or Industry sponsored)
- Course fee includes Training Fee, Course Material, Working Lunch, Tea, Snacks and Yoga Classes. It should be paid online by the candidate at the time of submitting the application form.

Food:

Breakfast and dinner will be available at nominal rates in the CSIR-NGRI Campus and will be payable by the participants.

Accommodation Charges:

- **CSIR-NGRI Guest House (twin sharing basis):** ₹600/- per head per day for the first 6 days, ₹1200/- per head per day from the 7th day onwards.
- **Skills Development Quarters (twin sharing basis):** ₹100/- per head per day.
- **Staff Quarters/Research Scholars' Hostel (twin sharing basis):** ₹50/- per head per day.

7. Training Coordinator(s)

Dr. Abhey Ram Bansal, Scientist-G (Course Coordinator)
Email: arb.ngri@csir.res.in
Contact Details: 040-2701 2810 (O)/ +91 9441202544

Dr. Mahak Singh Chauhan, Scientis-C (Course Co-Coordinator)
Email: mahaksingh.ngri@csir.res.in
Contact Details: 040 2701 2332 (O)/ +91 9410610505

8. Extra Curriculum Activities

- Yoga Classes with expert Trainer
- Quiz Competition/Running/Cultural Programs (Dance/Singing)

9. Program Management Committee

Nodal Officer: Dr. Abhey Ram Bansal, Scientist - G
Email: arb.ngri@csir.res.in

Mr. Satendra Singh, Sr. Technical Officer
Email: satendrasingh.ngri@csir.res.in

Ms. Swaroopa G., Senior Project Associate
Email: skills.ngri@csir.res.in

Office Contact: 040-2701 2325/2810

10. Chairman

Dr. Prakash Kumar
Director
CSIR- National Geophysical Research Institute
Email: director.ngri@csir.res.in
Office Contact: 040-2701 2302

11. Visit Us

https://www.ngri.res.in/cms/skill-development.php

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