CSIR-NEERI, Nehru Marg, Nagpur-440020

Green Skill Training Program on

"Artificial Intelligence and High-Performance Computing Training on Environmental Studies"

April 23-24, 2026

OBJECTIVES

In order to address complex environmental challenges such as climate change, land degradation, air and water pollution, biodiversity loss, and sustainable resource management, advanced computational tools are essential for data-driven decision-making. The integration of Artificial Intelligence (AI) and High-Performance Computing (HPC) enables efficient processing of large-scale environmental datasets, real-time monitoring, predictive modeling, and optimization of environmental management strategies.

CSIR-NEERI has extensive experience in environmental monitoring, assessment, modeling, and technology development for various private, public, and state/central government agencies across the country. Leveraging its domain expertise, this training program aims to build capacity in applying AI techniques (machine learning, deep learning, and predictive analytics and HPC frameworks for solving real-world environmental problems. The program is designed to equip researchers, academicians, industry professionals, and policymakers with practical knowledge and hands-on experience in AI-driven environmental analytics and high-performance computational techniques for sustainable environmental management.

COURSE CONTENTS

- Complexity in Environmental Studies
- Fundamentals of Artificial Intelligence (AI) and its opportunities in environmental engineering.
- AI-based applications for air quality monitoring, water management, and waste management, including hazardous waste.
- To demonstrate digital technologies in environmental monitoring systems for real-time data acquisition.
- To impart knowledge on High-Performance Computing (HPC), digital systems, digital twins, and advanced computational infrastructure for AI-ML applications.
- Advanced modelling techniques for biodiversity, circular economy, climate change, and carbon capture.
- Real-world applications of AI and HPC in climate change prediction and environmental sustainability.

VENUE: CSIR-NEERI, Nagpur

MODE OF TRAINING: Classroom lectures/ demonstration/ interaction.

REGISTRATION

- Interested candidates (Educational qualification: Graduate in Science / Engineering & above) can register through https://docs.google.com/forms/d/e/1FAIpQLScdPHEGa9RH1E43s8IqJION2-AtTv9lxzMl812wgMH9aggmjA/viewform?usp=sharing&ouid=111522172339616674268
- Registration fees: Rs. 2000/-
- Closing Date: April 15, 2026
- Seats are limited (25 seats) and registration will be confirmed on first come first get basis by email. Registration web link will be closed after receiving requisite registrations.
- Payment Details: The Director, CSIR-NEERI, Nagpur, Account Number: 30266513766
  Branch: NEERI SBI Branch, Nagpur (Maharashtra), IFSC, Code: SBIN0004224
- For any query kindly contact to: piyush.kokate@csir.res.in Contact No. 8806958188

CERTIFICATE OF PARTICIPATION: Certificate of Participation will be issued on successful completion.

DIRECTOR	GREEN SKILLS COORDINATOR	COURSE COORDINATOR
Dr. S. Venkata Mohan Director CSIR-NEERI	**Dr. Harshvardhan Singh** Scientist-G & Head Skill Development Centre (SDC)	**Dr. Shashikant Sadistap** Scientist G & (C-EIDS Team)