

Dr. Piyush A. Kokate

Scientist-E

CSIR-National Environmental Engineering Research Institute (CSIR-NEERI), Nagpur, India
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Academic Qualifications

Ph.D.	Ph.D. in Engineering Sciences <i>Thesis: "A Comprehensive Study of UAV-Enabled Air Sampling Methodology and Design of Air Quality Monitoring Systems for Industrial Applications"</i>
M.TECH.	VLSI Technology (Electronics Engineering)
PGDESD	Environmental Sciences

Research Profile

Research Experience	13+ Years
Publications	31+ research publications (https://orcid.org/0000-0001-9740-1182)
Patents	2
PG Students Supervised	12

Areas of Expertise

- Environmental Monitoring
- Environmental Applications of Drones & Sensors
- Energy Resources, Digital Systems
- Heritage Protection, Design of Sustainable Systems

Professional Memberships

IEEE • ISTE • ISRS • IETE

Selected Achievements

- Development of NEERIKSHAN-AQ for vertical air-quality profiling
- Development of drone-based automated high-capacity water/wastewater sampling system
- Development of drone-attachable embedded systems for environmental monitoring

Notable Projects (Recent)

- Development of Drone Related Technologies for Society-oriented Smart Sensing and Physical Interventional Applications
- Development and Demonstration of a High Spatio-temporal Resolution UAV Aided GHG Monitoring System for Municipal Solid Waste Management
- Energy Conservation and Management at CSIRNEERI
- Design and study of photo-system for protection of heritage structures against nocturnal insect's species Role: PI