



FUNDING OPPORTUNITY ANNOUNCEMENT (FOA) IN CARBON CAPTURE INNOVATION CHALLENGE (IC#3)
jointly by
DEPARTMENT OF BIOTECHNOLOGY & DEPARTMENT OF SCIENCE AND TECHNOLOGY

Mission Innovation (MI) is a global initiative of 23 countries and the European Union to accelerate the global clean energy innovation. India along with other countries is a member of all Mission Innovation (MI) challenges for clean energy development. Participating countries have committed to double their clean energy R&D investments over five years.

For details please visit website - www.mission-innovation.net

Member Countries of the Carbon Capture Innovation Challenge/ IC#3 under MI include Australia, Austria, Canada, China, Denmark, European Union, Finland, France, Germany, Indonesia, Italy, Japan, Mexico, Netherlands, Norway, Republic of Korea, Saudi Arabia, Sweden, United Arab Emirates, United Kingdom and United States.

OBJECTIVE: To undertake Joint Research & Development with member MI countries in Carbon Capture to enable near-zero CO₂ emissions from power plants & carbon intensive industries and value addition.

THRUST AREAS

- Research on CO₂ capture as absorption/adsorption/membrane based
- Hybrid model technologies to increase efficiency of CO₂ absorption
- Cost efficient absorbants for solvent based CO₂ absorption, with improved regeneration, capacity & efficiency
- New material development for membrane based CO₂ capture, with improved selectivity, high temperature operation & cost effectiveness
- Enzyme assisted solvent mediated CO₂ capture based technologies
- Value addition to chemicals & value-added products in fuel additives, CO₂ dry reforming, CO₂ to methanol, polymer etc.
- Valorizing CO₂ by Breakthrough Catalytic Transformations into fuels and chemicals
- Electrochemical and photochemical transformation of CO₂
- Research to develop oxy -combustion for utilization in coal-fired boilers
- Sequestration by enhanced oil recovery

*Submission
closes on:
15th Sept. 2018*

HOW TO APPLY

Prescribed format for Letter of Intent (LoI) is available at www.mission-innovation-india.net/FOA

A Soft copy (MS Word) Email to IC3@mission-innovation-india.net (Please mention MI-India-IC#3: Name of Principal Investigator/ Name of Institute in the subject line of the email), with copy to Dr. Sangita Kasture, Department of Biotechnology, at sangita.kasture@nic.in and Dr. Neelima Alam, Department of Science and Technology at neelima.alam@nic.in