

## **AICTE Organized the Grand Finale of the Inventors Challenge 2024**

**New Delhi, 14 November 2024**

The All India Council for Technical Education (AICTE) concluded the Grand Finale of The Inventors Challenge 2024, a groundbreaking competition held in collaboration with STMicroelectronics. The event, hosted at the Lloyd Institute of Engineering and Technology, Greater Noida, celebrated India's progress in semiconductor technology and its growing role in electronics manufacturing.

The Inventors Challenge aligns with the Government of India's ambitious initiatives to develop a robust semiconductor ecosystem and boost the nation's electronics manufacturing sector, positioning India as a global leader in electronics design and innovation. The competition is part of an ongoing commitment to fostering technological talent and innovation among students and faculty in the semiconductor field. By focusing on these areas, the competition aligns with global sustainability goals and supports the development of cutting-edge technologies that can contribute to social and environmental progress.

This year, the challenge attracted remarkable interest, with 2,765 teams submitting their innovative ideas for review. Through a multi-layer screening process 30 teams were selected for the Grand Finale to showcase their prototypes. They were provided with Semiconductor Microcontroller-Based STM Boards from STMicroelectronics, empowering them to develop their concepts into working prototypes.

AICTE Chairman Prof. T.G. Sitharam, the event's chief guest, commended the participants and emphasized the importance of industry-academia collaboration. He remarked, "The Inventors Challenge 2024 reinforces our commitment to fostering knowledge-sharing between industry and academia. This initiative has received excellent feedback from participants, strengthening our belief in the value of such collaborations. Exposure to industry-driven technology allows our academic ecosystem to remain at the forefront of innovation. Congratulations to this year's winners—we are excited to see how their creations will make life easier and contribute to global semiconductor advancements."

The Director (Innovation and Partnership) STMicroelectronics, Dr. Manoj Kumar echoed these sentiments, highlighting the role of technology in building a better world. "Higher education institutions are essential partners in driving innovation within the semiconductor ecosystem," he stated. "Our close collaboration with AICTE and the academic community allows us to fuel advancements that will positively impact society. We're thrilled to be a part of The Inventors Challenge again this year and look forward to seeing how these innovations will shape the local and global technology landscape."

## Focus Areas for Innovation:

To inspire impactful ideas, The Inventors Challenge 2024 invited submissions under themes that address pressing global challenges:

☑ Good Health and Well-Being

☑ Affordable and Clean Energy

☑ Industry, Innovation, and Infrastructure

☑ Sustainable Cities and Communities

☑ Artificial Intelligence at the Edge

☑ Smart Mobility

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First prize winner

Project name : Economic Waste Oil Recycler

College name : Institute of Engineering & Management, Kolkata

Name of Project Members:

Shyantana Kundu

Adrija Ghosh

Suvojit Maity

Name of mentor : Dr. Priti Das

The project Waste Oil Recycler can successfully recycle used engine oil to generate reusable industry grade fuel oil , preferably for ships. It has innovative flameless chemical reaction chambers in which oil mixes with chemicals in controlled temperature conditions. Similarly we have a innovative centrifuge unit that rotates at a high rpm of 3000 reducing the time for conventional sedimentation process by 1/48th. This project prevents oil pollution and can also act as a secondary source of revenue for small scale industries.

Second prize winner:

Project name : Parkinson's Aid Glove :

Institute name : V. E. S. Institute of Technology, Chembur

Third prize winner:

UWEFLUSH: An automatic seat top cleaner

College name- Ajay Kumar Garg Engineering college, Ghaziabad