Avery Dennison Foundation Spirit of Invention (InvEnt) Scholarship Program 2018

The Avery Dennison Foundation Spirit of Invention (InvEnt) Scholarship Program is designed to recognize and reward invention, innovation and excellence in high-achieving students studying in the fields of science, engineering and technology at selected higher education institutions in India. The merit-based scholarship provides a onetime scholarship of USD 1300 to the scholars. Each year 10 students are selected for this award in India. The Program is unique because it not only provides financial support to deserving undergraduate students studying in these fields, but it also provides them with access to enrichment and professional development activities, and opportunities to engage with Avery Dennison officials.

In addition to receiving scholarships, scholars attend a special workshop on invention and are honoured by the Avery Dennison teams at a recognition event. The program will provide continued support for leadership and innovation development through alumni engagement.

The Avery Dennison Foundation Spirit of Invention (InvEnt) Scholarship Program is administered by the Institute of International Education (IIE) on behalf of the Avery Dennison Foundation and the Avery Dennison Corporation.

For more information, visit www.applytoaverydennisoninvent.org

Participating Institutes for 2018

- Indian Institute of Technology (Banaras Hindu University), Varanasi
- Indian Institute of Technology, Bombay
- MKSSS’s Cummins College of Engineering for Women, Pune
- National Institute of Technology, Tiruchirappalli
- M. S. Ramaiah Institute of Technology, Bengaluru
Innovators

ASHWIJ
Bachelor of Engineering (Electronics and Instrumentation Engineering), M.S. Ramaiah Institute of Technology, Bengaluru

Crush Bin : A smart way of disposing dustbins

In a highly populated and developing country like India, dustbins in public areas are always full and often spilling over. This idea will reduce unnecessary space usage and facilitate efficient storage of garbage.

ADITYA KHANNA
Dual Degree - B.Tech and M.Tech (Electrical and Electronics Engineering), Indian Institute of Technology Bombay

Autonomous Toilet Cleaning Bot: Exploring the use of robots for toilet cleaning

Alongside constructing public toilets throughout India, toilet cleaning must be taken care of as well. Replacing manual labor with the intelligent use of technology this idea will make toilet cleaning a much more efficient process while reducing human labor.

CHAITANYASUMA JAIN
Bachelor of Technology (Computer Engineering), MKSS's Cummins College of Engineering for Women, Pune

Portable Solar-Powered Water Purification Unit : to enable travelers to purify contaminated water and make it fit for drinking

The significant degradation in the quality of water from natural sources has resulted in a rise in deaths caused due to the consumption of contaminated water. This idea offers an environment-friendly, sustainable and cost-effective solution to the pressing problem of unavailability of clean drinking water.

DEVIKA SANJAY KULKARNI
Bachelor of Technology (Mechanical Engineering), MKSS's Cummins College of Engineering for Women, Pune

New Emergency Escape Solution in Automatic Transport Systems

Rapid change in mass transport systems has also led to unfortunate incidents of passengers getting trapped in metro trains. This idea suggests fitting Piezo crystals inside the emergency exit doors which can be used to break the glass, circulate fresh air and reduce suffocation amongst the passengers.
Innovators

Conventional pressing of clothes is a skilled task consuming time and effort. This idea combines improved safety with quality and affordability by using a cloth pressing unit that needs minimum human effort and reduces time significantly.

HEMA CHOWDARY JALADI  
Bachelor of Engineering (Mechanical Engineering) M. S. Ramaiah Institute of Technology, Bengaluru  
Low-cost and Low-maintenance Cloth Pressing Unit: pressing of clothes by a mechanism comprising a foldable, self-warming table and rollers

Coating of Activated Charcoal (AC) inside the surface of sewer pipes reduces the concentration of poisonous gases and absorbs the poisonous content emitting from chimneys/pipes, resulting in a decrease in environmental pollution.

K KEERTHI VENKAT PRANAY  
Bachelor of Engineering (Mechanical Engineering) M. S. Ramaiah Institute of Technology, Bengaluru  
EcoSweep – A Compact Semi-Autonomous Electric Road Cleaning Machine

The idea is a network of machines operated, maintained, managed using complex algorithms. Each machine is completely electric and works in tandem with other EcoSweeps in the neighborhood to ensure all roads are cleaned at least once a day. This solution benefits everyone by reducing the risk of effects of PM2.5 and PM10 pollution caused by road dust.

MRUNAL NARENDRA TAMBE  
Bachelor of Technology (Electronics & Telecommunication) MKSS’s Cummins College of Engineering for Women, Pune  
Automated Walking Stick: a modified walking stick for the visually impaired to enable them detect obstacles

Blind people are often assisted at roads, railway stations etc. but there are also situations where they have no assistance. This idea is to develop an automated walking stick with an ultrasonic sensor and a PIR to help detect obstacles and make them self-sufficient.

SADDALAGARI RAGHAVENDRA  
Bachelor of Technology (Mechanical Engineering) Indian Institute of Technology (Banaras Hindu University), Varanasi  
Use of Activated Charcoal (AC): to control deaths due to inhalation of poisonous gases in manholes/confined spaces

Coating of Activated Charcoal (AC) inside the surface of sewer pipes reduces the concentration of poisonous gases and absorbs the poisonous content emitting from chimneys/pipes, resulting in a decrease in environmental pollution.
About Avery Dennison

Avery Dennison Corporation (NYSE: AVY) is a global materials science and manufacturing company specializing in the design and manufacture of a wide variety of labeling and functional materials. The company’s products, which are used in nearly every major industry, include pressure-sensitive materials for labels and graphic applications; tapes and other bonding solutions for industrial, medical and retail applications; tags, labels and embellishments for apparel; and radio-frequency identification (RFID) solutions serving retail apparel and other markets. Headquartered in Glendale, California, the company employs approximately 30,000 employees in more than 50 countries. Reported sales in 2017 were $6.6 billion. Learn more at www.averydennison.com

About IIE

For nearly a century, IIE has been a world leader in international education. IIE works to build more peaceful and equitable societies by advancing scholarship, building economies and promoting access to opportunity. As a not-for-profit with 18 offices and affiliates worldwide, IIE collaborates with a range of corporate, government and foundation partners across the globe to design and manage scholarship, study abroad, workforce training and leadership development programs. This is how IIE helps people and organizations thrive in today’s interconnected world. Learn more at www.iie.org

Rupa Ragavan
Bachelor of Engineering (Chemical Engineering), M. S. Ramaiah Institute of Technology, Bengaluru

The Static Broom: Leveraging static electricity for a broom

Apart from easing the manual and repetitive labour put in by cleaners and making their work more fun this idea will also be a small step towards achieving the goals of the Swachh Bharat (Clean India) Mission.

Shi Wang Singh
Bachelor of Technology (Civil Engineering), National Institute of Technology, Tiruchirappalli

Revolutionary Rooftop Rainwater Harvester (R3WH): Tapping into the potential of rain

This idea will help generate affordable clean water and revolutionize the water crisis in India. R3WH re-defines the idea of traditional rooftop rainwater harvesting – water instead of being stored in tanks gets transferred to aquifers ensuring larger benefit to communities.