

Outcomes of Industry-Academia Partnerships

Category	Industry or Foundation	Status
Capacity building and upskilling	Capacity Building of Master Trainers - Industry Engagement	IIT Madras in collaboration with Office of PSA and Deloitte organized a two day online workshop on capacity building. This helped academics understand how to build an array of partnerships and connections with the industry that will help enhance the impact of research efforts through transfer of know-how, products and innovative technologies, and a holistic approach to academia-industry relations. The workshop was held on January 29th and 30th, 2021.
Centre of Excellence	NBCC (India) Limited	NBCC Ltd has agreed to support IIT Madras's proposal for construction of a lab space at IIT Madras's Chennai campus.
Innovation	Daimler India Commercial Vehicles (DICV) Startup Sparks	DICV partnered with the Office of PSA to evolve the former's internal innovation platform "The FARM" as an incubator, to nurture the best innovation ideas in the start-up ecosystem across India and on a global level. As part of this initiative, the first edition and kick off of the start-up engagement and evaluation session was planned for four categories: electric vehicles and alternate mobility; connectivity and servitization; future mobility; and customized applications and industrial products.
Innovation	United Nations Development Program (UNDP) - Plastic Waste Management	United Nations Development Programme (UNDP), in partnership with Hindustan Coca-Cola Beverages Pvt Ltd (HCCB), Hindustan Unilever Limited (HUL), HDFC Bank and Coca Cola India Foundation (CCIF) is strengthening existing systems and processes in India to reduce the impact of plastic waste on human life and environment. Proposals received were sent to UNDP and their evaluation is underway.
Innovation	TCS - Digital Impact Square (DISQ)	Office of PSA partnered with TCS to support and promote social innovations. Digital Impact Square's DISQovery 2021 initiative is looking for teams of young innovators who want to convert their concept to a successful start-up in Assistive Tech challenge; AgriTech Challenge; or Rural Entrepreneurship challenge.
Innovation	RKVY-RAFTAAR Agri-Food Business Incubation Centre, IIT Kharagpur	"Office of PSA joined hands with IIT Kharagpur in their search for innovative startups in Agri and Food Technology Business. Under the RKVY - RAFTAAR (Rashtriya Krishi Vikas Yojna - Remunerative Approaches for Agriculture and Allied sector Rejuvenation) scheme of the Ministry of Agriculture and Farmer's Welfare, Govt. of India, IIT Kharagpur (The Agricultural and Food Engineering Department) is looking in to mentoring and nurturing young startups in agri and food business. The Incubator AFBIC - "Agri and Food Business Incubation Centre" aims to mentor, train and nurture young startups and interested individuals in agri and food technology space."
Innovation	IIT Madras Alumni Association - Sangam 2020, Driving the New Normal	Office of PSA facilitated organization of the New Normal Showcase, an innovation showcase curated by Sangam 2020 of IIT Madras Alumni Association to highlight entrepreneurs and their solutions tailored for the new normal; Bharat in the New Normal; Healthcare and Therapeutics in the New Normal; Future of Work and Education in the New Normal; and Deep-tech in the New Normal.
Innovation	United Nations Industrial Development Organization (UNIDO) - Industrial Resource Efficiency	UNIDO launched "The Facility of Low Carbon Deployment - FLCTD" to address technology gaps through use of energy efficiency technologies and support the deployment and scale-up of low-carbon technologies in India. They are running an innovation challenge in industrial resource efficiency, industrial IoT, and energy storage.
Innovation	United Nations Industrial Development Organization (UNIDO) - Industrial IoT	
Innovation	United Nations Industrial Development Organization (UNIDO) - Energy Efficiency	
Innovation to MSME capacity building/production	The Rockefeller Foundation	Proposal from IIT Delhi won the Rockefeller Foundation challenge.
R&D	Election Commission of India	The Election Commission of India was exploring the potential applications of blockchain technology to enable remote voting, and thus address concerns over election security, voter registration integrity, poll accessibility, and voter turnout. The decentralized, transparent, immutable, and encrypted qualities of blockchain technology could minimize election tampering and maximize poll accessibility. IIT Madras's proposal was accepted for implementation of blockchain technology for a secure e-voting process.
R&D and Innovation	Daimler India Commercial Vehicles (DICV)	Bhabha Atomic Research Center's Servo Design's proposal was accepted by DICV, manufacturers of commercial vehicles in India. Together, they are working on a detailed design to build a proof-of-concept for assessing functionality of the proposed design.
R&D and Innovation	Rallis India Limited, a TATA Enterprise	Office of PSA partnered with TATA Chemicals and their subsidiary Rallis India Limited to offer funding opportunities in agri sciences. Focus areas include crop care, seed production optimization technologies/tools, plant growth nutrients, and agriculture R&D phenotyping services/tools. Two proposals from ICAR-Central Institute for Cotton Research have been shortlisted.
R&D and Innovation	Indian Oil Corporation Limited (IOCL), Ministry of Petroleum & Natural Gas	Office of PSA has partnered with IOCL for R&D opportunities. IOCL was looking for R&D proposals in waste to value technologies; cost-efficient carbon capture and utilization technologies; solar energy; hydrogen economy; refining technology; lubrication technology; nanotechnology; pipeline inspection technologies; fuel additives and petrochemicals. IOCL shortlisted 11 institutes for proposals across these areas.
R&D and Innovation	DCM Shriram Limited	A call was initiated by Office of PSA with DCM Shriram Ltd inviting proposals for cost-effective production of Endo-Mycorrhiza. The focus was to look for cost-effective technology to produce these mycorrhiza spores, plant beneficial microbes compatible with mycorrhiza, and growth media to facilitate growth and to establish beneficial microbes in soil. Two proposals were shortlisted.
R&D and Innovation	PNB Housing Finance Limited	Office of PSA partnered with PNB Housing Finance Limited to share funding opportunities for start-ups focusing on precast housing, site housing, water treatment, and fire resistant buildings. Proposals from IIT Roorkee, IIT Guwahati, IIT Madras were shortlisted. Final names are to be announced.
R&D and Innovation	Bharat Electronics Limited	Three proposals, one each from IIT Kharagpur, IIT Kanpur and Jadavpur University have been shortlisted.
R&D and Innovation	Tata Chemicals Limited	"Office of PSA and TATA Chemicals collaborated to offer R&D funding opportunities in four areas. The areas and the institutes whose proposals were shortlisted are listed: 1. Performance materials (Soda Ash, Marine Chemicals, Silica and Nano Products) - IIT BHU, IIT Goa; 2. Nutritional Sciences (Food and Pharma grade Salt and Bicarb, Ingredients and formulations, Prebiotics, Probiotics and Natural Extracts) - NIT Surat; 3. Agri Sciences (Crop care, Seeds, Plant growth Nutrients) -through subsidiary Rallis) - IARI Delhi, IIT Delhi; 4. Energy Sciences (Battery Recycling, Actives and Battery Storage) - IISc Bengaluru, IIT Delhi, IIT Bombay."
R&D and Innovation	Bill and Melinda Gates Foundation	Hyderabad reagents' proposal shortlisted.
R&D and Innovation	Bill and Melinda Gates Foundation	Diagnostics Labs from IIT Guwahati and IIT Madras shortlisted.
R&D and Innovation	Bill and Melinda Gates Foundation	National Technician Training & Upskilling - FIND shortlisted.
R&D and Innovation	GATES-USAID-TB	Office of PSA, Gates Foundation and USAID have undertaken a landscape analysis of innovations in TB programmes being designed/implemented by healthcare, research, and academic organizations. The objective is to understand status of the innovations and to provide support in scaling promising innovations. The analysis will also help to determine additional problem statement(s) where innovations need to be considered.
Strategic Partnerships with Aggregators for Outreach/Capacity building	Bharat Heavy Electricals Limited	BHEL launched SanRachna, a portal to enable collaboration to be self-reliant in technology. Office of PSA sent out a call for faculty/researchers in institutions to register themselves as subject matter experts (solution providers/ innovators/ technologists).
Strategic Partnerships with Aggregators for Outreach/Capacity building	the echo network	Steering committee and subject matter experts for three areas health and sanitation, agriculture inclusive of climate and nutrition aspects, and ecosystem valuation (including economics) approved for workshops and talks.
Strategic Partnerships with Aggregators for Outreach/Capacity building	TiE	TiE-Delhi and Office of PSA is looking for innovations in the area of assistive solutions for special needs. Innovators will get the opportunity to pitch their ideas to the best investors in the country. The innovations should include a product or service for the consumers with special needs.