

TAMILNADU STATE COUNCIL FOR SCIENCE AND TECHNOLOGY

DOTE Campus, Chennai – 600 025

Subject: Tamil Nadu State Council for Science and Technology –
Science and Technology projects 2021-2022 – Approved Projects

Reference: 1. Chairman Approval dt. 28.06.2023

With reference to the above, the following 25 Science and Technology projects approved by State council during the year 2021- 2022

Sl. No	Title of Project	Name & Address of Principal investigator	Amount Recommended (Rs.)		
			First year	Second year	Total
Agricultural Science					
1.	Formulation of Entomopathogenic fungi (<i>Beauveria bassiana</i> L.) for the Biocontrol of Insect Pests in Vegetable Crops in Tirupattur district,	Dr.P.Saranraj Assistant Professor & Head, Dept of Microbiology Sacred Heart College (Autonomous) Tirupattur-635 601	1,55,000/-	80,000/-	2,35,000/- for 2 years
2.	Bio prospecting of False Black Pepper (<i>Embelia ribes</i>) for Novel Nematicidal Compounds	Dr.M.Shanmuga Priya Assistant Professor Dept of Crop Protection Agricultural College & Research Institute Thanjavur-614 902	1,25,000/-	90,000/-	2,15,000/- for 2 years
Biological Science					
3.	Identification of bio chemical and Genetic markers for psychiatric disorders - A study using Tamil Nadu Population	Dr.P.Annapoorani Associate Professor & Head, Department of Biochemistry V.V.Vanniaperumal College For Women Virudhunagar - 626 001	1,65,000/-	75,000/-	2,40,000/- for 2 years
4	Formulation of opuntia ficus and millet based supplement for anemic adolescent girls – A study on iron bioaccessibility	Dr.M.Anbu Malar Assistant Professor Dept. of Food Processing Stella Maris College Chennai – 86	1,25,000/-	1,15,000/-	2,40,000/- for 2 years
5	Sensitization and transfer of developed lycopene extraction technology to tomato cultivators of selected districts in Tamilnadu to prevent economic loss during deflation of tomato price	Dr.Karthik Mohan Assistant Professor Dept. of Biochemistry E.G.S.Pillay Arts and Science College Nagapattinam - 611 002	1,25,000/-	1,05,000/-	2,30,000/- for 2 years

Engineering and Technology					
6	Development of a novel and sustainable low cost strain hardening Cementitious Composites for Structural Retrofitting	Dr. M. Chellapandian Assistant Professor Dept. of Civil Engineering Mepco Schlenk Engineering College Sivakasi – 626005	1,25,000/-	35,000/-	1,60,000/- for 2 years
7	Investigations on enhancing shear-torsional performance of beam-column joints in earthquake- prone structures using Engineered Cementitious Composites	Dr. C.Jayaguru Professor Dept. of Civil Engineering PSNA College of Engineering & Technology Dindigul – 624622	1,25,000/-	80,000/-	2,05,000/- for 2 years
8	Design and development of hybrid remotely piloted aircraft system for crop yield estimation	Dr.K.Vijayaraja Professor and Head Dept. of Aeronautical Engg., KCG College of Technology, Karapakkam Chennai - 600 097	1,25,000/-	85,000/-	2,10,000/- for years
9	Developing functionally graded lattice structures in additive Manufacturing for aerospace applications	Dr.L. Balamurugan Professor Dept. of Mech. Engg. St.Joseph's College of Engineering Chennai 600 119	1,35,000/-	75,000/-	2,10,000/- for 2 years
10	Flow Control in sustainable water resource management in urban towns of Chennai.	Dr. L.Anand Associate Professor, Dept of Networking and Communication SRM Institute of Science and Technology Kattankulathur – 603 203	1,70,000/-	50,000/-	2,20,000/- for 2 years
11	Development of Monitoring and Regulatory system for Cardiorespiratory signals with the help of MEMS Piezo resistive pressure sensor and IoT directed Traditional Acupressure Technique.	Dr.M.Latha Associate Professor Dept. of EEE A.V.C. College of Engg. Mayiladuthurai-609 305	1,40,000/-	65,000/-	2,05,000/- for 2 years
12	Design and implementation of Autonomous hybrid Renewable Power Generation for irrigation with IoT based Energy management controller	Dr.N.P.Ananthamoorthy Professor and Head Dept. of EEE Hindusthan College of Engineering and Tech. Coimbatore- 641 032	1,11,000/-	1,18,000/-	2,29,000/- for 2 years
13	Design and Development of Smart Robot to Nagapattinam Government Headquarters Hospital for Assisting Healthcare workers in outbreak COVID-19	Dr.M.Durairasan Dean University College of Engineering, Thirukkuvalai Nagapattinam – 610 204	1,70,000/-	27,500/-	1,97,500/- for 2 years
14	Design and Implementation of Robot for women's safety using IoT	Ms.S.Suganthi Assistant Professor Dept. of CSE G.Venkataswamy Naidu College,Kovilpatti-628 502	1,30,000/-	50,000/-	1,80,000/- for 2 years

15	Intelligent Unmanned Aerial Vehicle Platform for Forest Farm Fire Surveillance and High Precision Aerial Seeding	Dr.S.Geetha Professor & Associate Dean VIT – Chennai – Campus, Chennai – 600 127	1,23,000/-	25,000/-	1,48,000/- for 2 years
16	Curating Proteogenomic big data for precision Medicine through deep learning	Dr.G.Tamilpavai Professor and Head Dept. of CSE Government College of Engineering, Tirunelveli- 07	30,000/-	30,000/-	60,000/- for 2 years
Environmental sciences					
17	Evaluation of Enriched Bacterial Consortium for the Treatment of Ammonia and Nitrite in Aquaculture Waste Water	Ms.D.Manimekalai Assistant Professor Dept. of Aquatic Environ - ment Management, Fisheries College and Res. Institute, Tamilnadu Dr.J. Jayalalithaa Fisheries University, Thoothukudi- 08	1,40,000/-	35,000/-	1,75,000/- for 2 years
18	Dye degradation by Graphene oxide doped transition metal catalysts for water treatment	Dr.S.Stephen Rajkumar Inbanathan Associate Professor Dept. of Physics The American College Madurai- 625 002	1,55,000/-	55,000/-	2,10,000/- for 2 years
19	Assessment of tropic state in major lakes and reservoir of Chennai Metro City using High Resolution Satellite Imagery	Dr A Vidyasakar Asst. Professor Dept. of Geology Periyar University PG Extension Centre Dharmapuri – 636 701	1,78,500/-	35,000/-	2,13,500/- for 2 years
Physical science					
20	Synthesis of Nitrogen Doped TiO ₂ Pyridinic Nitrogen RGO Nanocomposite for Energy Storage devices	Dr.P.Wilson Principal Secretary Madras Christian College, East Tambaram, Chennai – 600 059	1,40,000/-	1,00,000/-	2,40,000/- for 2 years
Medical Sciences					
21	Fabrication of multiplexed point-of-care-diagnostic device and its testing	Dr.K.M.Sakthivel Assistant Professor (SG) Dept. of Biochemistry PSG College of Arts and Science, Coimbatore-14	1,40,000/-	50,000/-	1,90,000/- for 2 years
22	Identification of novel kinase inhibitors as Oncotherapeutics using systematic drug repurposing approach	Dr.S.Sugunakala Assistant Professor and Head Dept. of Bioinformatics A.V.C.College, Mayiladuthurai-609 305	1,10,000/-	1,10,000/-	2,20,000/- for 2 years

Social Sciences					
23	A Study on Assessment of Nutritional status and reproductive health status among selected adolescent girls living in slum areas of Madurai District and impact of ICT based dietary intervention	Dr.S.Geethanjali Assistant Professor Department of Home Science Mother Teresa Women's University Madurai – 625 019	1,80,000/-	30,000/-	2,10,000/- for 2 years
24	Data – Driven Technology against climate change impact towards enhancing the sustainable agriculture : A study of central Districts in Tamilnadu	Dr.M.Surulinathi Assistant Professor Dept. of Library and Information Science Bharathidasan University Trichy – 620 024	1,07,000/-	1,03,000/-	2,10,000/- for 2 years
Veterinary Sciences					
25	Efficacy Bacteriocins from Probiotics in Eliminating Mastitis Organisms in Dairy Cattle by Invitro Studies	Dr. Rita Narayanan Professor and Head Dept of Food Processing Technology College of Food and Dairy Technology, Chennai-52	1,10,000/-	1,40,000/-	2,50,000/- for 2 years
Total			33,39,500/-	17,63,500/-	51,03,000/-

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Member Secretary