



Government of Karnataka

## Vision Group on Science and Technology

Department of Information Technology, Biotechnology and Science and Technology

### SEED MONEY TO YOUNG SCIENTISTS FOR RESEARCH (SMYSR)

#### SELECTED LIST OF SMYSR PROPOSALS BY VGST – SUBCOMMITTEE (FY: 2016-17)

SL No	College / Institution	Programme Coordinator and Department	Project Title
1	Manipal Institute of Technology Manipal	Dr.Raviprakash Y Physics	Development of low cost thin film solar cells with earth-abundant kesterite absorber.
2	NMAM Institute of Technology Karkala	Dr Manjunatha K B Physics	Development Of Novel Metal Doped Semiconductor Thin Films With High Optical Nonlinearities To Protect Eye And Sensors
3	Siddaganga Institute of Technology Tumkuru	Dr. Madhu Chennabasappa Physics	Mixed-oxide spinel composites AM <sub>2</sub> O <sub>4</sub> (A= Zn, Mg, Ca; M =3d-block, p-block element) thin films by printing and their photocatalytic, photocurrent activities.
4	Reva University Bengaluru	Dr. Sunitha D. V. Physics	Enhancement of photo luminescent properties of rare earth doped SrTiO <sub>3</sub> nanophosphors by introducing activators for LED applications.
5	Siddaganga Institute of Technology Tumkuru	Dr. Shridhar Mundinamani Physics	Green synthesis of Metal Oxides and Natural Dyes for Dye sensitized solar Cells.

6	Central University of Karnataka Kalaburagi	Dr. Konkallu Hanumae Gowd  Chemistry	Unraveling the biochemical reactions of cysteine sulfenic acid: Structural and functional characterization of peptide barbiturates.
7	BMS Institute of Technology Yelahanka Bengaluru	Dr. C. Kavitha  Chemistry	Graphene Oxide / plasmonic hybrid nanocomposites for versatile surface enhanced Raman spectroscopy (SERS) based multi analyte detection sensors.
8	Reva University Bengaluru	Dr. Lakshmi B  Chemical Science	Reactivity Studies of Maleimide Epoxy Resins with Different Amines.
9	Sri Dharmastala Manjunatheshwara Institute of Technology, Ujire	Dr. S. Samshuddin  Chemistry	Design and Synthesis of Some New Environmentally Friendly Corrosion Inhibitors.
10	K L S Gotge Institute of Technology Belagavi	Dr.Kiran A Thabaj  Chemistry	Photocatalytic Degradation to Improve Water Treatment.
11	Acharya Institute of Technology Bengaluru	Dr. Harish M.N.K.  Chemistry	N4-macrocyclic systems supported on metal/metal oxide nanostructures via self-assembly technique for electro catalytic application
12	Alva's Institute of Engineering and Technology Moodbidri	Dr. Pavithra G P  Chemistry	Ni-Mo Composite Coatings with NiO Nanoparticles as Electrocatalytic Material
13	KLE Society's KLE Institute of Technology Hubballi	Dr. Nagaraj P. Shetti  Chemistry	Modern Water Treatment by Degradation Method – Nanomaterials Applications.

14	Kuvempu University Shankarghatta Shimogga District	Dr. Kumaraswamy H M  Biotechnology	Design and Development of Tumor Targetted Embelin loaded Nanoparticles.
15	Manipal Institute of Technology Manipal	Mrs.Anusha Prabhu B Biotechnology	Detection of Candida albicans pathogenic dual switching using Paper-based Analytical Devices (PADS for Candida)
16	VTU Centre for PG studies Mysuru	Dr. Thimmaraju S. N  Computer Application	Design and Implementation of Big Data Analytics platform Using Map Reduce and Massive Parallel Processing.
17	Bheemanna Khandre Institute of Technology Bhalki Bidar	Mr.Yogesh V. Gandge  Computer Application	Crop yield prediction in Bidar district using Data mining and Internet of Things(IoT) based solutions.
18	M.S.Ramaiah University of Applied Sciences, Bengaluru	Dr Parimala Sagar  Oral and Maxillofacial Surgery	Evaluation and Correlation of the Prognosis of Cystic Lesions to Decompression by Clinical, Histological, Radiographic Assessment and Molecular Marker Expression.
19	New Horizon College of Engineering Bengaluru	Dr. Mahesh K  Electrical and Electronics Engineering	Green energy-hybrid renewable power generation (solar-wind) for irrigation .
20	Government Engineering College Haveri	Mr. Vishalagoud. S. Patil  Mechanical Engineering	Design optimization of truck cabin to reduce interior noise by experimental testing of fatigue and NVH and FEM approach
21	Bheemanna Khandre Institute of Technology Bhalki and Bidar	Mrs. Saba Fatima  Electronics and Communication Engineering	Power management in Heterogeneous System Architecture(HSA)

22	Dayananda Sagar Academy of Technology and Management Bengaluru	Dr. J Anitha Computer Science Engineering	Empowering Socio-Economic Status of Scheduled Caste/ Tribe Women in Agrahara Village, Kanakapura Taluk, Bangalore Rural District through Mulberry Sericulture
23	Sri Venkateshwara College of Engineering Bangalore	Dr. M S Hema Computer Science Engineering	Parkinson Disease Analysis using Big data
24	Alliance College of Engineering and Design Bengaluru	Prof. Smita G Jagannath Civil Engineering	Chromium (VI) removal from waste water Using low cost adsorbents.
25	Siddaganga Institute of Technology Tumkuru	Dr. N. Shanmuga Priya Mechanical Engineering	Diminution of Revision Surgeries in Cemented Total Hip Replacement by PMMA/MWCNT Nanocomposites.
26	NITK, Surathkal	Dr. Mritunjay Doddamani Mechanical Engineering	Pre-operative damage assessment in Orthopedic Surgery using 3D printing to minimize healing time.
27	Jyothy Institute of Technology Bengaluru	Dr. M Geetha Priya Center for incubation, innovation , research	Waste to Wealth approach: development of completely biodegradable printed circuit boards using proteins and natural fiber based composites.

28	KSIT Kanakapura Main Road Bengaluru	Dr. Surekha B  Electronics and Communication Engineering	Design and Development Of Bio-Inspired Algorithms For Confidential Medical Image Communication.
29	GSSS Institute of Engineering & Technology for Women Mysore	Dr. Reshma Banu  Information Science and Engineering	Forensic Network analyzer for designing ISP Network Monitoring, Security and Management System.
30	East West Institute of Technology Bengaluru	Dr..Radhika.K.N  Civil Engineering	Effects Of Municipal Solid Waste Landfilling On Water And Soil Quality in Vicinity Of Dumpsites – A Case Study Of Bangalore And Tumkur, Karnataka
31	Sri Venkateshwara College of Engineering Bangalore	Dr. Shivashankar  Electronics and Communication Engineering	Low Cost Smart Antennas for High Performance Wireless Communications
32	Sri Venkateshwara College of Engineering Bengaluru	Dr. Nageshwara Guptha M  Information Science and Engineering	Novel cloud based attendance system using software as a service.
33	BMS College of Engineering Bengaluru	Dr. Kayarvizhy N  Computer Science Engineering	HDMI based IoT Device for enhancing the life and security of Senior Citizens
34	Dayananda Sagar Academy of Technology and Management Bengaluru	Dr Madhumathy P  Electronics and Communication Engineering	A Complex Programmable Logic Device Based Green House Monitoring System for Agriculture.

35	Dayananda Sagar College of Engineering Bengaluru	Dr. Ganashree.T.S  TeleCommunication Engineering	Deployment of Hybrid neural network to detect breast cancer
36	Acharya Institute of Technology Bengaluru	Mrs.Naidila Sadashiv Computer Science and Engineering	Cloud Computing based Rural and Mobile Health Care System.
37	PES College of Engineering Mandya	Mr. M J Anand  Electronics and Communication Engineering	A Heuristic Approach for Design and Develop a Prototype Electronics Nose to Detect Spoilage of Milk and Bread.
38	Jain University Global Campus Ramanagara	Dr. Mahesh Padaki  Nano Material Science	Removal of Arsenic and Fluoride from Ground Water using membrane filters.
39	Yenepoya University Mangalore	Dr. Bhagya B Sharma  Center for Environment Studies	A study of physical, chemical and biological charateristics of surface and ground water from deralakatte region in Dakshina Kannada