

**UNIVERSITY COLLEGE OF ENGINEERING, BIT CAMPUS, ANNA UNIVERSITY  
TIRUCHIRAPPALLI 620 024**

**SPONSORED PROJECTS DETAILS**

**2019-2020**

<b>SL. No.</b>	<b>Investigator's Name &amp; Dept.</b>	<b>Name of the Project</b>	<b>Funding Agency</b>	<b>Duration</b>	<b>Total Cost of the Project (Rs.)</b>	<b>Date/Month &amp; Year of sanction</b>	<b>Status</b>
<b>1</b>	Dr. S. Brahadeeswaran, Prof., Dept of Physics, BIT- Campus	Investigations on Phasematchability in Organic Nonlinear Optical Single Crystals for Terahertz Generation	UGE-CSR- Chennai	1 year	<b>239880.00</b>	10-May-19	<b>Ongoing</b>

**2018-2019**

<b>2</b>	Dr. Rajasekar Subbiah, Scientist -D, Dept. of Biotech, AUC-BIT	The Role and Biology of Mir-16 in the Pathogenesis and Resolution of Lung Fibrosis	DBT- New Delhi	3 years	<b>1597000.00</b>	13-Jul-18	<b>Transferred</b>
<b>3</b>	Dr. P. Sureshkumar, Asso. Prof. Dept. of Biotech, BIT	Enhancement and scale up the Gingerol content in the Zingiberoficinale using gamma radiation and validation of the antidiabetic potential	DST- New Delhi	3 years	<b>3246000.00</b>	25-Apr-18	<b>Ongoing</b>
<b>4</b>	Dr. Sarma dhulipala, AP, Dept of Physics, BIT- Campus	Demonstration of Grid Supportive EV charger and Charging Infrastructure at LT Level (D-EVCI)	DST New Delhi.	3 years	<b>1027000.00</b>	25-Jul-18	<b>Ongoing</b>
<b>5</b>	Dr. Sarma dhulipala, AP, Dept of Physics, BIT- Campus	SUDDHA VAAYU: An Electrical Chamber for Detection and Mitigation of Air Pollution	DST New Delhi.	2 years	<b>2002000.00</b>	15-Oct-18	<b>Ongoing</b>
<b>6</b>	Dr. Sarma dhulipala, AP, Dept of Physics, BIT- Campus	Collecting Particulate Matter in Air Using filters Placed on the Top of a Moving Car	DST New Delhi.	1 year	<b>616000.00</b>	08-Mar-19	<b>Ongoing</b>

7	Dr. A. Valarmathi, AP, Dept. of MCA BIT - Campus	Gis Based Spatial Mining of Soil Contamination Level in Cauvery Delta Region	DST- New Delhi	2 Years	<b>764500.00</b>	01-Sep-18	<b>Ongoing</b>
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### 2017-2018

8	Dr. Rajasekar Subbiah, Scientist -D, Dept. of Biotech, AUC-BIT	The Role and Biology of Mir-16 in the Pathogenesis and Resolution of Lung Fibrosis	DBT- New Delhi	3 years	<b>1590000.00</b>	01-Jul-17	<b>Transferred</b>
9	Dr. K. Jothivenkatachalam, Asso. Prof. Dept. of Chemistry, BIT-Campus	Synthesis of visible light driven metal doped bismuth based for oxides for Photocatalytic and Photoelectrochemical Applications	DST	3 years	<b>6581960.00</b>	24-Apr-17	<b>Ongoing</b>
10	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, BIT	A Comprehensive analysis of SNPs in miRNAs and its impact on drug response in South Indian population	ICMR -SNP New Delhi	1.5 years	<b>2071500.00</b>	11-May-17	<b>Ongoing</b>
11	Dr. G. Venkatesan, Asst Prof, Dept. of Civil Engg, BIT - campus	Studies on structural element by toing tire derived aggregate	IRMRA - New Delhi	3 years	<b>998024.00</b>	19-Jul-17	<b>Ongoing</b>
12	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, BIT	Sequential anaerobic solar photo-fenton process for effective treatment of textile effluents	DBT- New Delhi	3 years	<b>3117200.00</b>	10-Jul-17	<b>Ongoing</b>

### 2016-2017

13	Dr. Susila, Asst Prof., Dept of MECH, BIT-Campus	Studies on Creep Properties of Iron Based Nanostructured Oxide Dispersion Strengthened (ODS) Alloys	DST- New Delhi	2 years	<b>1802400.00</b>	15-Apr-2016	<b>Completed</b>
14	Dr. V. Thangaraj, Asst. Prof. Dept of Chemistry, AUT	Development of nanostructure multilayered solar absorber coatings by Electrochemical deposition	DST New Delhi.	2 years	<b>1100000.00</b>	26-Sep-2016	<b>Completed</b>
15	Dr. Rajasekar Subbiah, Scientist -D, Dept. of Biotech, AUC-BIT	The Role and Biology of Mir-16 in the Pathogenesis and Resolution of Lung Fibrosis	DBT- New Delhi	3 years	<b>1575000.00</b>	26-Aug-2016	<b>Transferred</b>

16	Dr.Hemamalini, Woman Scientist - B, Dept. of Biotech, BIT	Investigation on the role of chronic inflammation and epithelial-mesencymal transition in cancer metastasis and Chrmoresistance	DST, New Delhi.	2 years	2293000.00	19-Dec-2016	Transferred
17	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, BIT	Chemoprevention of texic effects of transition metal nanomaterials by targeting inflammatory miRNAs using dietary polyphenolic compounds	ICMR	3 years	4333200.00	19-Dec-2016	Completed
18	Dr. S. Punitha, Woman Scientist, Dept. of Pharma Tech, BIT	Developed of a dual-loaded dry emulsion containing atrovastatin and resveratrol for treating lung cancer	DST-HRD - New Delhi	3 years	2882250.00	19-Dec-2016	Completed

### 2015-2016

19	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AUT -T	Designing Minicircle Vector for Tumor Specific Co-Expression of shRNAs and Transgene for Improved Cancer Gene Therapy	DST -SERB New Delhi	3 years	5565000.00	10-Apr-15	Completed
20	Dr .Shanmugapriya, Asst. Prof. Dept of Pharma Tech, AUT-T	Amelioration of Hydrolysable Tannin Fraction from Terminala Chebula Fruits as Potent Antirheumatic Agent	DST -SERB New Delhi	3 years	2693000.00	10-Apr-15	Completed
21	Dr. S. Rajasekaran, Scientist - D, Dept. of Biotech, AUT -T	The Role and Biology of Mir-16 in the Pathogenesis and Resolution of Lung Fibrosis	DBT New Delhi	5 years	8800000.00	22-Jun-15	Completed
22	Dr. S. Rajasekaran, Scientist - D, Dept. of Biotech, AUT -T	Role of miR-15a and mir-16 in the Pathogenesis and resolution of experimentally induced-lung fibrosis	DST New Delhi	3 years	2060000.00	19-Jan-16	Completed
23	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AUT -T	Developing Human Cell Based Multiple Gene Promoter Fluorescent Protein-Receptor Genotoxicity Assay	ICMR New Delhi	3 years	3560500.00	02-Sep-15	Completed

24	Dr. A. Viswanathan, Asst Prof. Dept. of Physics, AUT	Laser Cladding of Aerospace Aluminium Alloys Matel Nitrides for Wear Resistive Applications	CTDT Chennai	1 year	100000.00	17-Oct-15	Completed
25	Dr. M. Chandrasekar, Asst Prof., Dept. of Mech, AUT	Effect of wind velocity and humidity on the performance of standalone flat PV module cooled with head spreaders in conjunction with cotton wick structure	CTDT Chennai	1 year	100000.00	31-Oct-15	Completed

### 2014-2015

26	Dr. S. John Vennison, Asst Prof, Dept. of Biotech, AUT-T	Recombinant Antigens as a Tool for Analyzing Antibody Response Among Dengue Patients to Understand Pathology and Pathogenesis	ICMR New Delhi	3 years	2584000.00	21-Apr-14	Completed
27	Dr. V. Thangaraj, Asst Prof, Dept. of Chemistry, AUT-T	Synthesis of Compositionally Modulated Multilayered Alloys by Electrochemical Deposition	DST New Delhi	3 years	2450000.00	28-Aug-14	Completed
28	Dr. N. R. Sasirekha, Asst Prof, Dept. of Chemistry, AUT-T	Novel Mesoporous Materials for Dry Reforming of Methane	DST New Delhi	3 years	2478000.00	28-Aug-14	Transferred
29	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AUT -T	Fluorescent protein-reporter based assay to measure toxicity of nanomaterials	DST New Delhi	3 years	7996400.00	13-Jan-15	Completed

### 2013-2014

30	Dr. S. John Vennison, Asst Prof, Dept. of Biotech, AUT-T	Development of a recombinant NS1 antigen based diagnostic kit for the early detection of dengue virus infection	DST New Delhi	3 years	4242000.00	22-Jan-14	Completed
31	Dr. P. S. Sudhakar Gandhi, Asst Prof, Dept. of Biotech, AUT-T	Structural Exploration of Recombinant Mouse Seminal Vesicle Spink-3 Receptor on Sperm Acrosome	DBT New Delhi	3 years	2987000.00	26-Apr-13	Completed

32	Dr. P. S. Sudhakar Gandhi, Asst Prof, Dept. of Biotech, AUT-T	Mouse Seminal Vesicle Sulphydryl Oxidase (SOx): Cloning and Expression of Recombinant Enzyme to Identify Its Cross Linking Substrate among Seminal Vesicle Proteins	DST New Delhi	3 years	<b>3470000.00</b>	05-Jul-13	<b>Completed</b>
33	Dr. A. Puratchikody, Asst. Prof. Dept of Pharma Tech, AUT-T	Design, Synthesis and Evaluation of Novel COX – 2 Inhibitors of Dibromotyrosine Derivatives as Anti-inflammatory Drugs	DST New Delhi	3 years	<b>3042000.00</b>	06-Aug-13	<b>Completed</b>
34	Dr. N Subramanian, Asst. Prof. Dept of Pharma Tech, AUT-T	Targeted Delivery of Camptothecin Using Polymer Stabilized Nanoemulsions for Improved Treatment of Breast Cancer	DST New Delhi	3 years	<b>2558000.00</b>	22-Jan-14	<b>Completed</b>

### 2012-2013

35	Dr. B. Anandaraj, Asst. Prof. Dept. of Biotech, AUC-BIT	Marine Nano factories – Sense and Sensing	DST New Delhi	3 years	<b>2500000.00</b>	30-May-12	<b>Completed</b>
36	Dr. P.Selvamani, Asst. Prof. Dept. of Pharma tech, AUC-BIT	Systematic exploration and pharmacological appraisal of active botanical ingredient (fraction) isolated from herbs as possible adjunct / alternate therapeutic aid for dementia associated with Alzheimer's disease	DST New Delhi	3 years	<b>2685000.00</b>	30-May-12	<b>Completed</b>
37	Dr. K. Ruckmani, Prof., Dept of Pharma Tech, AUT-T	Isolation Characterization and formulation studies of Gums obtained from Albizia stipulate and Prunus Cerasoides of Mizoram	DBT New Delhi	3 years	<b>2940000.00</b>	14-Jun-12	<b>Completed</b>
38	Dr. M. Arulmozhi Asst Prof, Dept. of Petro chem.Tech., AUT-T	Studies on Removal of Phenolic Compounds from Aqueous and Industrial Effluents Using Biosorbents and Ionic/Bio Surfactants and Modeling of the Process	DST New Delhi	3 years	<b>1880000.00</b>	31-Jul-12	<b>Completed</b>

39	Dr. K. Nehru, Asst Prof, Dept. of Chemistry, AUT-T	Asymmetric Transesterification of Organic Compounds Using The Combination Of Enzyme-Metal Catalyst	CSIR New Delhi	3 years	1600000.00	01-Aug-12	Completed
40	Dr. N Subramanian, Asst. Prof. Dept of Pharma Tech, AUT-T	Development of Biodegradable Temperature and pH Responsive Hybrid Polymer-Peptide System for Efficient Intraocular Delivery of Drug	DBT New Delhi	3 years	5845000.00	01-Oct-12	Completed

### 2011-2012

41	Dr. T. Senthilkumar, Asst Prof & Head Dept of Mechl Eng, AUT-T	Investigations on Fatigue behavior of Friction Stir Welded Age Hardenable High Strength Aluminium Alloy	CSIR New Delhi	3 years	1365000.00	10-Jun-11	Completed
42	Dr.S. Brahadeeswaran, Asst Prof, Dept. of Physics, AUT-T	Growth and characterization of DAST and BNA organic single crystals for terahertz applications	DST New Delhi	3 years	2979204.00	18-Feb-12	Completed

### 2010-2011

43	Dr. K. Ruckmani, Prof Dept of Pharma Tech, AUT-T	Nanocomplexes for the Targeted Drug Delivery to the Inflamed Site of Lungs	DST New Delhi	3 years	3214400.00	07-Apr-10	Completed
44	Dr. P. Srinivasan, Asst. Prof Dept. of Physics, AUT-T Panruti Campus.	Studies on the Optical and Mechanical Properties of ZnO Nanofilms	CSIR New Delhi	3 years	1700000.00	29-Jun-10	Completed
45	Dr. T. Senthilkumar, Asst Prof & Head Dept of Mechl Eng, AUT-T	Proposal for Transmission Tes Facility (TTF) Facility (1500 kW) at CVRDE, Avadi, Chennai	CVRDE DRDO Chennai	10 months	854825.00	29-Sep-10	Completed

46	Dr .S. Latha, Asst. Prof. Dept of Pharma Tech, AUT-T	Design, Construction of Fe-drug nano complex loaded nano / micro bullets using a novel hybrid Technology for magnetic targeted therapy and its comparative with special emphasis on rheumatoid arthritis	DRDO New Delhi	3 years	1209880.00	21-Sep-10	Completed
47	Dr. S. Senthilnathan, Asst.Prof. Dept of Physics, AUT-T- Pattukottai Campus	Synthesis and Characterization of temperature sensitive Ferro fluid	DST NEW Delhi	3 years	1404000.00	11-Nov-10	Completed
48	Dr. V. Pugalenti,Asst. Prof. Dept. of Biotech, AUT-T	Enhancement of bio hydrogen production using integrated nanoparticle-catalyzed fermentation MEC and process modeling	DBT New Delhi	3 years	2425000.00	21-Dec-10	Completed
49	Dr. K. Ruckmani, Prof Dept of Pharma Tech, AUT-T	National facility for drug development for academia, pharmaceutical and allied industries	DST New Delhi	3 years	60000000.00	28-Dec-10	Completed
50	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AUT -T	Simultaneous silencing of multiple Pro-angiogenic factors to suppress tumor-induced angiogenesis.	DBT New Delhi	3 years	7266000.00	11-Jan-11	Completed
51	Fist Programme, Dept. of Biotch, AUT-T	FIST Programme	DST NEW Delhi	3 years	1950000.00	02-Feb-11	Completed
52	Dr. P. Srinivasan, Asst. Prof., Dept. of Physics, AUT-Panruti Campus. <b>Indio - Portugal Co - Operation Project</b>	Growth of organic crystals by modified vertical bridgman technique and their pragmatic prospects as nonlinear optical materials	DST New Delhi	3 years	414700.00	17-Feb-11	Completed

### 2009-2010

53	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AU-T	Silencing of ER stress response genes using RNA interference to protect hyperglycemia induced pancreatic B-cell death	DST New Delhi	3 years	2886400.00	02-May-09	Completed
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54	Dr.S.John Vennison, Asst Prof, Dept. of Biotech, AU-T	Cloning and Expression of NS-1 and prM proteins for the diagnosis of dengue infections	DST New Delhi	3 years	2240900.00	02-May-09	Completed
55	Dr. K. Jothivenkatachalam, Asst Prof, Dept. of Chemistry, AU-T.	Photo-redox chemistry of Cobalt (III) ammine complexes coordinated to unsaturated carboxylic acids and macrocycles: Studies on product analysis and photochemical pathways.	DST New Delhi	3 years	2026200.00	02-May-09	Completed
56	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AU-T- Plan	Screening and characterization of active constituents from an antidibetic plant <i>Gymnema Montanum</i> and its pharmacological evaluation using genomic and proteomic approach	DST New Delhi	2 years	258500.00	26-May-09	Completed
57	Dr.R.Krishnamoorthy Prof. & Head, Dept. of IT, AU-T - Plan	Design of New Iris Recognition System for Personal AUT-Thentication with Orthogonal Polynomials Model	AICTE New Delhi	3 years	460000.00	26-May-09	Completed
58	Dr. P. Srinivasan, Lecturer, Dept. of Physics, AU-T-Panruti Campus.	Growth of Bulk and Lucid Borate Crystals for deep and Vacuum UV generation	DRDO New Delhi	3 years	1360000.00	30-Jan-10	Completed

### 2008-2009

59	Dr.S.John Vennison, Asst Prof, Dept. of Biotech, AU-T.	Cloning and expression of pyruvate decarboxylase and alcoholdehydrogenase gene in to cellulosic ethanol production	DRDO New Delhi	3 years	1621000.00	03-May-08	Completed
60	Dr.P.Sureshkumar, Asst Prof, Dept. of Biotech, AU-T	In vitro regeneration of selected endangered medicinal plants activity guided extraction, comparative assessment of antidiabetic and antioxidant activity	DST New Delhi	3 years	2030400.00	14-Jul-08	Completed



61	Dr. S. Venkatesan, Asst Prof, Dept. of Petrochemical Tech, AU-T	Studies on removal of phenolic compounds from aqueous media and industrial effluents using room temperature ionic liquids (RTILS) and modeling of the process	DST New Delhi	3 years	2004000.00	14-Aug-08	Completed
62	Dr.R.Krishnamoorthy Prof. & Head, Dept. of IT, AU-T	Thin Client Technology Laboratory	MODROBS New Delhi	2 years	785000.00	23-Oct-08	Completed
63	Dr.S. Brahadeeswaran, Asst Prof, Dept. of Physics, AU-T	Ultra-fast transient spectroscopy to probe charge carrier dynamics in molecular semiconductor crystals- An indigenous and cost-effective approach	DST New Delhi	3 years	1847200.00	01-Nov-08	Completed
64	Dr .N Subramanian, Asst Prof., Dept of Pharmaceutical & Tech, AU-T	Development, characterization and biological evaluation of microemulsion and lipid dispersion for drug delivery and detoxification	DST New Delhi	3 years	2077000.00	06-Nov-08	Completed
65	Dr.R.Krishnamoorthy Prof. & Head, Dept. of IT, AU-T	Design of New Iris Recognition System for personal Identification with Orthogonal Polynomials Model	MIT New Delhi	2 years	3578000.00	27-Jan-09	Completed

### 2007-2008

66	Dr. P. Rajaguru, Prof. & Head, Dept. of Biotech, AU-T	Designing A Multi Target Rnai Effector Molecule For Simultaneous Silencing Of Multiple Genes	DBT New Delhi	1.5 years	3071000.00	07-Feb-08	Completed
67	Dr.S.John Vennison, Asst Prof, Dept. of Biotech, AU-T.	Transgenic Bacillus Sphaericus for effective Mosquito Control	DBT New Delhi	3 years	1740000.00	20-Feb-08	Completed
68	Dr.R.Krishnamoorthy Prof. & Head, Dept. of IT, AU-T	Design of Orthogonal Polynomials based Transform Coding Technique for Color images & Video	UGC MRP	3 years	990000.00		Completed