

**A P J Abdul Kalam Technological University**  
**List of Research Seed Money Projects selected for funding**

**ARCHITECTURE**

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Archana A P Asst. Professor	Designing of building envelope through passive cooling strategies for warm humid climate	RIT Kottayam	148000	130000	18000

**COMPUTER SCIENCE & ENGINEERING**

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Dhanya P M Asst. Professor	Criminal policing system	Rajagiri School of Engineering & Technology	30000	15000	15000
2	Dr. Jayasudha J S Professor	Interactive and informative learning using Augmented and Virtual Reality	SCT College of Engineering Trivandrum	115000	85000	30000

**CIVIL ENGINEERING**

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Sheena Hassan Asst. Professor	Modelling of flow through Gabion Weirs	College of Engineering, Trivandrum	200000	180000	20000
2	Dr. Girija K Asso. Professor	A standardised cross section for restricted depth prestressed concrete road bridge superstructure over railway track	College of Engineering, Trivandrum	200000	180000	20000

3	Dr Jisha S V Asst. Professor	Seismic soil structure interaction response of structures subjected to pounding	Mar Baseliou College of Engineering Trivandrum	62000	50000	12000
4	Dr.Resmi G Professor	Development of Bio Compost System for treating Degradable solid waste and production of manure	NSS College of Engineering	195000	175000	20000
5	Jithin Kurian Andrews Asst. Professor Dr Reebu Z Koshy Prof & Head	Distress identification & estimation in flexible pavements using image processing	Saintgits college of Engineering	72000	65000	7000

### ***FOOD TECHNOLOGY***

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Lakshmi Mohan Asst. Professor Jyothi K Nair Asst. Professor (Co- Investigator)	Isolation and characterization of plastic degrading microbes	Saintgits college of Engineering	115000	85000	30000

### ***ELECTRONICS & COMMUNICATION ENGINEERING***

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Dr . Venugopal G Asso. Professor	Characterization of effect of muscle fiber types in fatigue progression using surface	NSS College of Engineering	200000	157000	37500

2	Dr.Renu Jose Asst. Professor	Machine Learning based Channel Equalization in Digital Communication Systems.	RIT Kottayam	200000	169000	31000
3	Dr. V Sampath Kumar Professor	Puttumatic - Automatic puttu making machine	Vimal Jyothi Engineering College	156750	136750	20000
4	Er. Harinarayanan Nampoothiri M G  Asst. Professor  Dr. Godwin	Mud and manhole cleaning robot with optimized control parameters	Saintgits college of Engineering	140000	110000	30000
5	Dr.Ragesh G.K Professor	Implementation of an autonomous Wireless Body Area Network(WBAN) for IoT enabled healthcare applications using wearable sensor node with solar energy harvesting	Adi Shankara Institute of Engineering and Technology,Kalady	114500	92500	22000
6	Vinayakumar B Asst. Professor Dr. Godwin Anand P S Professor  (Co-Investigator)	Power generation using controlled gravitational water vortex power plants (GWVPP) in rural waterbodies of kerala	Saintgits college of Engineering	140000	110000	30000
7	Dr. G Glan Devadhas Professor	Development of a smart SCADA structure for intelligent rainfall prediction in kerala and real time flood level alerting system	Vimal Jyothi Engineering College	159000	129000	30000

**ELECTRICAL AND ELECTRONICS ENGINEERING**

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IInd INSTALMENT
1	Jayasree M S Asst. Professor Dr.Harikumar R Asst. Professor	Design and development of E-Waste PCB Component Separator and Segregator	College of Engineering, Trivandrum	200000	50000	150000
2	Dr. J S Savier Asst. Professor	Design and development of a micro phasor measurement unit	College of Engineering, Trivandrum	198000	120000	78000
3	Dr. Mahendran N Professor Dr. Pinkymol K P Asso. Professor (Co- Investigator)	Design and development of solar photo voltaic system with reduced current ripple KY boost converter	Saintgits college of Engineering	172500	72500	100000
4	Dr. Francis M Fernandez Asst. Professor Anu G Asst. Professor	Quantification of Harmonic Injection in Power System using Non -Active Power Theory	College of Engineering, Trivandrum	200000	175000	25000
5	Deepa M U Asst. Professor	Solar assisted electric vehicle with one converter for charging and motor driving	College of Engineering, Trivandrum	137875	75000	62875
6	Dr Bijuna Kunju Head of the dept	Self sustainable nanogrid for homes	TKM College of Engineering Kollam	196000	150000	46000
7	Dr. Lal Priya P S Asst. Professor	Design and Implementation of an energy efficient robust controller for an electric vehicle with In - Wheel motors	College of Engineering, Trivandrum	198000	100000	98000
8	Dr Sreeja S Asst. Professor	Design and development of a humanoid robot	College of Engineering, Trivandrum	199843	100000	99843

**MECHANICAL ENGINEERING**

SL NO	PRINCIPAL INVESTIGATOR	TITLE OF PROJECT	NAME OF COLLEGE	AMOUNT SANCTIONED	Ist INSTALMENT	IIInd INSTALMENT
1	Harikrishnan C Asst. Professor Dr. Thankachan T Pullan Asso. Professor	Fabrication and Analysis of Al-Li Surface Composite Using Friction Stir Processing	Rajagiri School of Engineering & Technology	125000	105000	20000
2	Dr. Lijo Paul Asso. Professor	Experimental investigations and performance optimization of the micro abrasive jet machining	St. Josephs College of Engineering Palai	130000	115000	15000
3	Dr. Jilse Sebastian Asso. Professor	Experimental investigations on the performance and emission characteristics of CI engine fueled by plastic oil derived from polyethylene waste plastic	St. Josephs College of Engineering Palai	140000	120000	20000
4	Dr Jacob T Varghese Asst. Professor Sajan Thomas Asst. Professor (Co Investigator)	Energy efficient green structures	Saintgits college of Engineering	127500	107500	20000
5	Dr. Sudheesh Kumar C P Asst. Professor	Investigation of human body vibration to minimise occupational health hazards	Govt College of Engineering, Kannur	165000	155000	10000

6	Harish T V Asso. Professor	Experimental Study of Changes in Micro Mechanism of Wear With Vibration in Stroke Length under Reciprocating Sliding Conditions of A390-SiCp AND A336-SiCp Composites.	College of Engineering, Trivandrum	200000	180000	20000
7	K S Sajikumar Asst. Professor	Experimental and numerical characterisation of a non contact handling device	College of Engineering, Trivandrum	200000	192500	7500

Sanction order will be issued separately for each project.

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