

Prof. Ankit Bansal

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Development of a Thermochemical code for enhanced Blast Explosives	DRDO	35.23 Lakhs	PI	2018	2021
2.	Development of a 3D ablation software for the design of ablative materials	DRDO	25 Lakhs	PI	2019	2021
3.	Development of couple DSMC/PMC solver for rarefied media	SERB	30 Lakhs	PI	2018	2021

Prof. Arup Kumar Das

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Analysis of rapid phase transition in liquid natural gas spills	SERB	34.91 Lakhs	PI	2018	2021
2.	Development of a cost effective Left Ventricular Assist Device (LVAD) with centrifugal mechanical circulator, Drive system and associated control	MHRD, India and ICMR, India	20 Lakhs	PI	2017	2020
3.	Development of unified model for micro and macroscopic two phase interfaces by coupling Eulerian and Lagrangian framework	BRNS, India	23 Lakhs	PI	2016	2019
4.	Enhancement of inside tube flow boiling heat transfer of eco-friendly refrigerants	SERB	43 Lakhs	PI	2016	2019

Prof. Sushanta Dutta

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Investigation of the unsteady aerodynamic response of LP turbine blade under part load conditions	SERB	56.65 Lakhs	PI	2019	2022

Prof. Akshay Dvivedi

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Development of Ultrasonic Assisted Tandem Electrochemical and Electro discharge Micromachining Process	SERB	59.95 Lakhs	PI	2019	2022

Prof. D.K. Dwivedi

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Studies on high temperature behavior of Al- & Cu winding used in distribution transformers	ICA, Mumabi	25.07 Lakhs	PI	2018	2021
2.	Heat resistant weld joints of dissimilar steel for thermal power plants	CSIR	22.96 Lakhs	PI	2018	2021
3.	Joining of steel-aluminium alloys using friction stir welding (INSA)	INSA	-	PI	2019	2020

4.	Controlling AGG in FSW joints of precipitation hardenable Al alloys	DST	33.50 Lakhs	PI	2019	2022
5.	Diffusion bonding for joining of similar and dissimilar metals using innovating approaches for enhanced joint performance	DST	21.30 Lakhs	PI	2019	2021

Prof. B. K. Gandhi

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Investigation on Flow instabilities in Draft Tube at Off-Design operation of Hydraulic Turbines	Central Power Research Institute, New Delhi	1.75 Crore	PI	2017	2019
2.	Flow Field and erosion wear analysis of casing of a centrifugal slurry pump	CSIR	19.88 Lakhs	PI	2017	2020

Prof. Shailesh Ganpule

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Measurement of Brain Deformation under Impact Loading.	SERB	44.42 Lakhs	PI	2017	2020

Prof. Akhilesh Gupta

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Experiments in design fire environment facility relevant to NPPS	DAE	1.99 Crore	PI	2016	2019

Prof. S. P. Harsha

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Dynamic Analysis of lube oil tank system under static and multi-excitation dynamic loading for 800 & 660 MW	BHEL	15.57 Lakhs	PI	2018	2021
2.	Design Optimization of Emergency Spring for Passenger Coach Secondary Suspension	Aryan Exporters Pvt Ltd - Lucknow	11.80 Lakhs	PI	2019	2022

Prof. D. M. Joglekar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Nonlinear Dynamics and Control of Inhomogeneously Deforming Dielectric Elastomer Actuators	DST	85 Lakhs	PI	2016	2021
2.	Nonlinear Interaction of Guided Waves with Delamination Defects in Composite Waveguides	SERB	48.36 Lakhs	PI	2017	2020

Prof. M. M. Joglekar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Design, Development, and characterization of a Dielectric Elastomer - based variable focal length Mirror	SERB	42.91 Lakhs	PI	2018	2021
2.	Mathematical modeling and experimental characterization of the dynamic response of dielectric elastomer actuators	SERB	20.99 Lakhs	PI	2014	2019

Prof. D. B. Karunakar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Investigating and enhancing the porosity of ceramic shell in investment casting process	Science & Engineering Research Board	—	PI	2018	2021

Prof. Anil Kumar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Design and experimental implementation of a nonlinear energy sink for targeted energy transfer of a beam carrying unbalanced rotor	Core Research Grant, SERB-DST	27.6 Lakhs	PI	2019	2022
2.	Optimizing the Number of Fire Detectors in Crew Compartment of Armoured Fighting Vehicles (AFVs)	CFEES Delhi, DRDO	19.44 Lakhs	PI	2019	2020
3.	Design (mathematical modeling and simulation) of elastomer based shock absorption system	R&DE (E) Pune, DRDO	18.82 Lakhs	PI	2018	2020

Prof. Dinesh Kumar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	GEP	Everest Industries	—	PI	2018	2021

Prof. Ravi Kumar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Experimental Investigation of 700 Mwe Specific Full Length Channel Deformation (Sagging) Behaviour	DAE	68.48 Lakhs	PI	2016	2019
2.	Sustainable Technologies for distributed Level Application and Energy Support of Rural Development -II (STAR II)	DST	1.60 Crore	PI	2019	2022
3.	Channel Heatup Study under Slumped Fuel Condition for PHWR	DAE	69.03 Lakhs	PI	2016	2019

Prof. K. B. Mishra

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Thermal Radiation Hazard from Biofuel pool fires	SERB, New Delhi	~40 Lakhs	PI	2016	2019

Prof. Manish Mishra

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Optimization of three-Fluid Heat Exchanger Performance - A Numerical & Experimental Investigation	CSIR	21.96 Lakhs	PI	2017	2020
2.	Investigation on hydrogen Generation from a PHWR Disassembled Channel	BRNS	48.18 Lakh	PI	2016	2019

Prof. R. S. Mulik

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Measurement of Diffusible Hydrogen and Residual Stresses in Welded P91 Steel	BHEL Haridwar	—	PI	2017	2020
2.	Rapid prototyping by wire metal and metal droplets for high temperature applications	EIL, India	—	PI	2018	2021

Prof. Kaushik Pal

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Use of nanofillers in hybrid composites for advanced barrier layers, packing and medical applications	SERB	64.31 Lakhs	PI	2015	2019
2.	2-D Transition metal Carbides based hybrid symmetric /asymmetric supercapacitor for energy storage application.	DST	19.69 Lakhs	PI	2017	2020

Prof. Siladitya Pal

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Tunable phononic materials for low frequency band gap using computational and experimental approaches	SERB	38.93 Lakhs	PI	2017	2020

Prof. Avinash Parashar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Molecular dynamics based Atomistic Simulations to investigate the feasibility of defective Graphene and H-Bn Nanosheets for Desalination	CSIR	15.88 Lakhs	PI	2018	2021
2.	A molecular dynamics based atomistic simulation to study the effect of nanofillers on the mechanical and thermal properties of polymer based nanocomposites	Nanomission, DST	24.09 Lakhs	PI	2016	2019
3.	Molecular dynamics based simulations to investigate the effect of radiation on the mechanical and fracture properties of single phase zirconium (Zr) and Zr-1% Nb alloy	BRNS, DAE	22.79 Lakhs	PI	2016	2019

Prof. P. M. Pathak

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Modeling and control of mobile cooperating bionic arms	CEFIPRA, DST (INDIA)-CNRS (FRANCE)	33.66 Lakhs	PI	2016	2019
2.	Development control system for mobile robot with manipulator for transporting hazardous materials	DST	13.95 Lakhs	PI	2015	2019
3.	Indo-Korean Joint Network Centre on Robotics	DST	34.86 Lakhs	PI	2018	2021
4.	Design and Development of Cable- Driven Parallel Robot for Automated Construction	SPA	46.19 Lakhs	PI	2019	2022

Prof. P. K. Sahoo

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Boil-Off and Multiple Channel Disassemble Study for PHWR	DAE	1.47 Crore	PI	2015	2019
2.	Heat up and Quenching Studies of PHWR Specific Debris	DAE	41.66 Lakhs	PI	2016	2019

Prof. Dhish Kumar Saxena

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	INNOVIZATION: Discovery of Innovative Knowledge through Optimization and Machine Learning	MHRD, MSU (USA)and GE	105.64 Lakh	PI	2019	2021
2.	A Systems Approach towards Data Mining and Predictions in Airline Operations	Deity India; GE India; NWO Netherlands	133.30 Lakh (cash); 33.30 Lakh kind	PI	2015	2020

Prof. Apurbba Kumar Sharma

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Research and Development of Nanoenhanced wear resistance	DST	13.34 Lakhs	PI	2019	2022

Prof. S. C. Sharma

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Setting of up Centre for Railway Research (CRR)	RDS	1 Crore	PI	2018	2021

Prof. Varun Sharma

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Implications of 3D printed bio-ceramic based scaffold logistic in Uttarakhand	UST	36.80 Lakhs	PI	2019	2022
2.	Experimental investigation on ultrasonic assisted grinding	CSIR	–	PI	2019	2022
3.	Design and development of noval cutting inserts using rapid tooling	ARDB	–	PI	2019	2022

Prof. Inderdeep Singh

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Conceptualization, Design and Development of Forest –Waste based Sustainable Composite Materials	MoEF and CC (National Mission for Himalayan Studies)	16.14 Lakhs	PI	2019	2022
2.	Independent Engineer for Dharamshala-Mcleodganj Passenger Ropeway Project	Government of Himachal Pradesh and DRL, Dharamshala	17.7 Lakhs	PI	2019	2022
3.	Development of Natural Fiber Reinforced Composites	Godrej and Boyce Mfg. Co. Ltd.	3.93 Lakhs	PI	2019	2022

Prof. Indra Vir Singh

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Multiscale Simulation Framework for Defect Formation Studies in Electronic Materials and Devices	Indo-Korean, DST, New Delhi	37.93 Lakhs	PI	2018	2021
2.	Numerical Crack Growth studies in hybridized pressure tube of PHWR	DAE	16.49 Lakhs	PI	2018	2021
3.	Development of stochastic multiscale framework based on microstructural features for prediction the bulk response of heterogeneous materials	CSIR	13.54 Lakhs	PI	2018	2021
4.	Development of XFEM based damage Tolerance philosophy for the remaining life Assesment of Aeroengine Components	DRDO	23.54 Lakhs	PI	2018	2021

Prof. Subudhi Sudhakar

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Solar assisted liquid desiccant cooling system using single storage tank	DST	35.4 Lakhs	PI	2019	2021

Prof. Abinash Kumar Swain

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Development of CAD platform for sustainable product relization	SERB	10.44 Lakhs	PI	2015	2019

Prof. Andallib Tariq

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	High temperature Thermal Contact Conductance (TCC) measurement for PT-CT contact	BARC (DAE)	1.54 Crore	PI	2015	2019

Prof. Sanjay H Upadhyay

S. No.	Project title	Funding agency	Outlay	Nature of Association	Commencement year	Completion year
1.	Design and development of proof-of - concept model of a Packaging methodology & rigidization for Gossamer Space Antenna Structure	SAC-ISRO	26.01 Lakhs	PI	2018	2021
2.	Design and development of proof-of - concept model of an adaptive membrane	SAC-ISRO	29.75 Lakhs	PI	2015	2019

