

# List of Faculty members and Research Areas

## NIST- SUMMER RESEARCH INTERNSHIPS & FELLOWSHIPS 2017

Department/Center	Mentor's Name	Research Areas
Computer Science Engineering (CSE)	Prof. Geetika Mudali	Database Systems, Cloud Computing
	Mr. Shom Prasad Das	Machine Learning, Data Science
	Mr. Anisur Rahman	High Performance Computing, Algorithmic Graph Theory, Cryptology & data mining algorithms
	Mr. Bhawani S Pattnaik	Robotics, Embedded System, Internet of Things
	Dr. Jatindra K Dash	Image processing, Medical Image analysis, Texture analysis, Content-based Image Retrieval, Information fusion
	Mr. Debananda Kanhar	Image processing, Machine Learning,
	Mr. R. K. Shial	Data center networking in cloud environment.
	Dr. Hemant K Reddy	Cloud Computing: VM Provisioning, Big Data analytic on cloud environment
	Mr. Siddharth Bhusan Neelamani	Mobile Communications, Computer Vision
	Mr. Ranjit Behera	Internet of Things and Cloud Computing
Mr. P. K. Jena	Multimodal Biometric Authentication	
Mechanical Engineering (ME)	Prof. Sangram Mudali	Renewable Energy, Clean Technologies, Social entrepreneurship
	Prof. Ashok Das	Clean Technologies, Energy Efficiency, Smart Grid and Green Buildings, Solar PV and Thermal (CSP) Applications, Semiconductor Equipment Development
	Dr. P S Rama Sreekanth	Nanocomposite Materials, Carbon nanotube composites random and aligned and Vibrations
	Dr. Sambit K Mohapatra	Metal forming, Metal matrix composites, Power Metallurgy
	Dr. Santosh Kumar Panda	Refrigeration systems, flows simulation, New
	Dr. Saurabh Dewangan	Material characterization, mining equipment, coal cutting
	Dr. Souren Mishra	Algorithms for Euler and Navier-Stokes equation
	Dr. Sushanta Kumar Sahu	Dissimilar metal welding (Experiments numerical), water filtration in fluoride affected regions.
	Dr. B Sambhi Reddy	Polymer and Natural Composite materials, Design and Fabrication of biomedical implants
Dr. Vijay Kumar Singh	Nonlinear analysis of laminated composite, parts with piezoelectric materials.	

<b>Electronics and Communication Engineering (ECE)</b>	<b>Prof. Ajit K. Panda</b>	VLSI Design & Heterostructure Semiconductor Devices
	<b>Prof. Trinath Sahu</b>	Quantum Semiconductor devices and materials ; Nanomaterials, ( Low dimensional devices and materials, Electron transport in quantum well structures, Inter subband optical transition in quantum well structures)
	<b>Dr. SatyaSopan Mahato</b>	Solar cells, , Silicon Hetero structure devices like Strained-silicon MOSFET, SiGe MOSFETs
	<b>Dr. Palash Das</b>	GaN HEMT, AlGaIn/GaN heterostructure modelling, III-V compound semiconductor (GaN, GaAs) epitaxial growth in Molecular Beam Epitaxy, X-Ray diffraction characterizations of AlGaIn/GaN thin films
	<b>Dr. Sandipan Mallik</b>	Thin film sensors, Thin Film Deposition and Characterization Technique, High-k Gate Dielectrics, Photovoltaic
	<b>Dr. Satya Ranjan Patnaik</b>	Graphene for electron devices, Prospects of wide band gap material, Content based image retrieval
	<b>Dr. Santosh K Patnaik</b>	Analog VLSI Integrated Circuit Design
	<b>Dr. Pradyumna K Patra</b>	Antenna , Microwave Systems , Metamaterial , Micro Electro Mechanical Systems
	<b>Mr. Asit Kumar Panda</b>	Micostrip Antenna, Metamaterial, microwave and wireless component
	<b>Mr. Swadhin Mishra</b>	Wireless Communication(MIMO-OFDM communication) and Information theory and coding
	<b>Mr. Durga P Das</b>	Digital System Design using FPGA
	<b>Mr. M. Suresh</b>	Reversible Logic Circuits, Null Conventional Logic, Glitch Analysis in Digital Circuits
	<b>Mr. Sudhakar Das</b>	Semiconductor Devices, VLSI
	<b>Mr. R. K. Dash</b>	RF Circuit and System design, Micro strip antenna and Fractal Antenna Design for Ultra Wide Band Applications
<b>Dr. Himansu Sekhar Pradhan</b>	Distributed fiber optic sensor design and analysis	
<b>Electrical Engineering and Instrumentation Engineering ( EE, EEE, EIE)</b>	<b>Dr. Abhro Mukherjee</b>	Controller design of various dynamical systems
	<b>Mr. Satyabrata Das</b>	VLSI DSP SYSTEMS, NON LINEAR ADAPTIVE SIGNAL PROCESSING
	<b>Dr. Ch. Murthy</b>	Phasor Measurement Unit: Its Applications, Optimal Placement and Reliability
	<b>Dr. Santanu Pradhan</b>	Reinforcement Learning based Intelligent Control of Autonomous Robots
	<b>Dr. Basanta Sahu</b>	Control System, Robotics, Underwater Robotics, Intelligent Control
	<b>Dr. Pradeep K Sahu</b>	Distributed generation system, power quality, grid connected PV system, Modeling & control of power electronics converter

	<b>Dr. Susmita Kar</b>	Micro-grid Protection, Integration of Distributed generations, Signal processing and data mining application in power system
	<b>Dr. O P Suresh</b>	Matlab and Power electronics
	<b>Mr. Bhagabati P Pattnaik</b>	Power System Engineering, Electrical Machines & Drives, Hybrid Non-Conventional Energy Production and Smart Grid
	<b>Mr. S. M. A. K. Azad</b>	PLC, SCADA, Industrial Automation & Control, Distributed Control Systems
<b>Civil Engineering (CE)</b>	<b>Dr. Pradeep Kumar Bhunya</b>	Climate change , hydrology
	<b>Ramakanth Choudhury</b>	Fiber Reinforced concrete
	<b>Ravi Kanth Sriwastav</b>	Seismic vulnerability assessment of building for future earthquakes
<b>Applied Engineering Sciences</b>	<b>Dr. Prabhat K Sahu</b>	Computational Chemistry, Molecular Modelling, Molecular Electronics
	<b>Dr. Manabendra Patra</b>	Chemical Kinetics, Colloidal Chemistry and nanotechnology
	<b>Dr. Duryodhan Sahu</b>	Synthesis and Characterization of organic materials and its nano-composites for electro-optical applications
	<b>Dr. Shrabani Mahata</b>	Development and Characterizations of Nano materials and Thin Films for Bio-applications
	<b>Dr. Mihir Hota</b>	Fiber Optics, Holographic Coupler & Optical bistability, Optical switching, Application of Nanotechnology (Opto Electronics)
	<b>Dr. Debasish Panda</b>	Nano-material and nano-device, Emerging memory technology, nonvolatile memory, photo-voltaic devices, electronic material.
	<b>Dr. Deepanjali Mishra</b>	Spintronic and Quantum dot synthesis
	<b>Dr. Bibekananda Bira</b>	System of hyperbolic PDEs fractional order PDEs
	<b>Dr. Ajay Kumar Bhurjee</b>	Nonlinear Optimization problem with interval uncertainty
	<b>Dr. Motahar Reza</b>	Fluid Dynamics, Heat and Mass transfer, MHD, Stability of Fluid Flows, Computational Fluid Dynamics