

	Project Code	Post	Broad area of research	Essential Qualification	Department/ Location of Interview	Co-PI
Agriculture						
	A1.3	Project Associate (PA)	IoT based AI Optimized Real-time Monitoring System with IVR service for Remote Aquafarm	<u>Essential qualifications:</u> B.Tech in Electronics / Electronics and Telecommunication/Electronics & Communication/ Electronics & instrumentation / Electrical & Electronics/ M.Tech in Electronics / Communication system /Electronics & Communication/ Electronics & instrumentation / Electrical & Electronics RF engineering /RF and microwave OR M.Sc in Electronics/ Electronics and Telecommunication/Electronics & Communication <u>Desirable qualification:</u> B.Tech (GATE)/M.Sc (GATE/ Any national level scholarship) and with a CGPA of 7.0 or 65% marks. ME/M.Tech with at least 6.5 CGPA or 60% marks. Desirable soft skill: MATLAB, python, HFSS/ CST	ETC	Diptimayee Konhar dkonhar_etc@vssut.ac.in
	A1.5	Project Associate (PA)	SMART AGRI-NET: AIoT-Enabled Integrated Platform for Crop Health Monitoring, Precision Farming,	Essential Qualification: B.E./B. Tech. in Electronics and Communication Engineering/Electronics and Telecom Engineering/Electrical/Electric	ETC	Manasa Ranjan Jena mrjena_etc@vssut.ac.in

			and Sustainable Millet Cultivation	al and Electronics Engineering/Electrical Engineering/Electronics and Instrumentation Engineering or similar with above 60% marks or 6.5 CGPA Students with higher qualification as given below M.E./M. Tech. in Electronics/Electrical/Instrumentation or similar with specialization in Communication Systems/Communication/ VLSI/Microwave and Antenna or similar field with above 60% marks or 6.5 CGPA at both UG and PG levels have added advantage Desirable Skills: GATE score is desirable for B. Tech. students, Coding Skills in MATLAB/Python/ Verilog/ Xilinx Vivado		
	A1.5	Project Associate (PA)	SMART AGRI-NET: AIoT-Enabled Integrated Platform for Crop Health Monitoring, Precision Farming, and Sustainable Millet Cultivation	Essential Qualifications: BE/B Tech(CSE/EE/EEE/ECE/ETC/IT) with minimum of 6.5 CGPA in 10 point scale or minimum 60% mark OR M.Sc (Electronics/Computer Science/Data Science/IT) with minimum of 6.5 CGPA in 10 point scale or minimum of 60% mark <u>OR</u> M Tech (CSE/ EE/ EEE/ ETC/ ECE/ IT) with minimum of	ETC	Nilamani Bhoi nbhoi_etc@vssut.ac.in

				6.5 CGPA in 10 point scale or minimum of 60% mark Desirable Qualification and Experience: GATE Score, Relevant industry experience		
	A2.2	Project Associate (PA)	AI/ML enabled systems for monitoring livestock health, optimizing production, and improving sustainability	Essential qualification: B.Tech/M.Tech in Computer Science & Engineering or IT or relevant discipline or M.Sc in Computer Science or relevant discipline or MCA from a recognized institute/university. Desirable: NET/GATE qualification.	CSE	Bighnaraj Naik mailto:bnai@gmail.com
	A2.2	Project Associate (PA)	AI/ML enabled systems for monitoring livestock health, optimizing production, and improving sustainability	Essential qualification: B.Tech/M.Tech in Computer Science & Engineering or IT or relevant discipline or M.Sc in Computer Science or relevant discipline or MCA from a recognized institute/university. Desirable: NET/GATE qualification.	CSE	Bighnaraj Naik mailto:bnai@gmail.com
	A3.3	Project Associate (PA)	Sustainable Valorisation of Agricultural and Food Waste through the Extraction of Therapeutic Bioactive Compounds	Essential qualification: Four years B. Tech degree in Chemical Engineering, MTech in chemical engineering, food technology, environmental engineering, biotechnology from a recognized university Desirable qualification: GATE/NET in the relevant subject.	CHEM ENGG	Amit Kumar Behera akbehera_chemical@vssut.ac.in

	A3.4	Project Associate (PA)	Smart Agri-Quality Grading System: AI-Driven Assessment and Grading of Agricultural Products for Market Readiness	Essential Qualification (any one): B.E./B.Tech in Electronics, Computer Science, EEE and its relevant Engineering discipline/ M.Sc Computer Science/ M.Sc. in Electronics / M.Tech in Electronics/M.Tech in Computer Science / MCA or its relevant subject/ Equivalent degree recognized by government institutions Desirable Skills (may vary by project): Knowledge of programming languages (Python/MATLAB/C/C++)/ Experience in data analysis, machine learning, AI/ML/ Experience in laboratory experiments or field data collection	CSE	Santi Kumari Behera b.santibehera@gmail.com
Health						
	H1B	Project Associate (PA)	Use of in-silico and experimental (such as fluid-mechanics and spectroscopic) techniques to understand drug discovery (including drug-protein interaction) and their interaction with protein and membrane and to establish a reliable	Essential qualification: Four years Bachelor's Degree in Biomedical Engineering or Chemical Engineering/ Master's Degree in Biochemistry or Biotechnology or Pharmaceutical Science from a recognized university or equivalent: Desirable Qualification: GATE for engineering students and GATE/NET for MSc students. MTech for engineering	ME	Pandaba Patro ppatro_me@vssut.ac.in

			therapeutic procedure and drug screening mechanism	students with specialization in Computational / In-silico Experience with molecular docking, molecular dynamics simulations, QSAR, or related computational chemistry tools will be preferred.		
	H1C	Project Associate (PA)	Evaluation of the effectiveness and feasibility of in-vitro dataset using a PCG-based system	Essential Qualifications: BE/B Tech (CSE/EE/EEE/ ECE/ETC/ IT/AI/ML/Data Science/AI/Robotics and AI/AI-DS) with minimum of 6.5 CGPA in 10 point scale or minimum 60% mark OR MCA OR M.Sc (Electronics/ Computer Science/ Data Science/ IT/ML/AI/ML-DS) with minimum of 6.5 CGPA in 10 point scale or minimum of 60% mark Desirable: M Tech (CSE/CS/EE/ EEE/ ETC/ ECE/IT/ AIML/ Data Science/AI-DS/ ML-DS/ AI) with with minimum of 6.5 CGPA in 10 point scale or minimum of 60% mark, GATE/NET, Relevant industry experience	CSE	Gyanaranjan Sial gshial_it@vssut.ac.in
	H2A	Project Associate (PA)	Development of remote patient monitoring device with 5G secured communication.	Essential Qualification: MinimumQualification: B.E./B. Tech. in Electronics and Communication Engineering/ Electronics and Telecom Engineering/Electrical/Electric	ETC	Harish Kumar Sahoo harish_etc@vssut.ac.in

				al and Electronics Engineering/Electrical Engineering/Electronics and Instrumentation Engineering or similar with above 60% marks or 6.5 CGPA. Students with higher qualification as given below M.E./M. Tech. in Electronics/Electrical/Instrumentation or similar with specialization in Communication Systems/Communication/VLSI/Microwave and Antenna or similar field with above 60% marks or 6.5 CGPA at both UG and PG levels Desirable Skills: GATE score is desirable for B.Tech. students. Coding Skills in MATLAB/Python/Verilog/Xilinx Vivado Previous research and work experience in the similar domains will be given preference		
	H2A	Project Associate (PA)	Development of remote patient monitoring device with 5G secured communication.	Essential Qualification: B.Tech in Electronics / Electronics and Telecommunication/Electronics & Communication/ Electronics & instrumentation / Electrical & Electronics/ M.Tech in Electronics / Communication system /Electronics & Communication/ Electronics & instrumentation / Electrical & Electronics	ETC	Radhashyam Patra rs.patra_etc@vssut.ac.in

				RF engineering / RF and microwave OR M.Sc in Electronics/ Electronics and Telecommunication/Electronics & Communication Desirable qualification: B. Tech (GATE) /M.Sc (GATE/ Any national level scholarship) and with a CGPA of 7.0 or 65% marks. ME/M.Tech with at least 6.5 CGPA or 60% marks. Desirable soft skill: MATLAB, python, HFSS/ CST		
	H2B	Project Associate (PA)	Development of multi-channel remote patient monitoring SoC with RF transceiver.	Essential Qualification: M.E./M. Tech. in Electronics/Electrical/ Instrumentation or similar with specialization in VLSI/Instrumentation/ Electronics/Electrical or similar with above 60% marks at both UG and PG levels OR B.E./B. Tech. in Electronics/Electrical/Instrumentation or similar with above 60% marks. Desirable Qualification: GATE score is desirable. Previous experience in Digital and Analog IC design is desirable.	ETC	Aditya Kumar Hota akhota_etc@vssut.ac.in

	H3B	Project Associate (PA)	Development of Multi-Organ-On-Chip Models Integrated with Biosensors for Physiological, Pathophysiological, and Drug Discovery Applications.	Essential Qualification: B.Tech in Metallurgy/Material Science/ Ceramic/Biotechnology/Biomedical or related field/MSc in Physics/Chemistry with consistently First class academic record throughout the carrier Desirable Qualification: GATE qualification for B.Tech candidates/ GATE or NET qualification for M.Sc. candidates/ M.Tech specialization in Metallurgy, Material Science, Ceramic, or Biotechnology or related field/ Research experience in thermoelectric materials is preferred	MME	Manila Mallik manilamallik2016@gmail.com
	H3C	Project Associate (PA)	Self-powered wearable devices and drug delivery systems with biosensors for continuous healthcare monitoring.	Essential Qualification: Four-year bachelor's degree in chemical, biochemical, or biotechnology engineering or technology or medicine from a recognized university or equivalent. Or Master's degree in chemical, biochemical, engineering or technology or biotechnology medicine from a recognized university or equivalent. OR M.Sc. in life sciences	CHEM ENGG	Lipika Parida lparida_chemical@vssut.ac.in

Energy						
	E2.2	Project Associate (PA)	Synthesis of DRX cathode materials	Essential Qualification: Master Degree in Chemistry from a recognized university or equivalent. Preference will be given to candidates having GATE/NET qualification	CHEM	Prof Priyaranjan Mahapatra priya_chem@vssut.ac.in
	E2.4	Project Associate (PA)	Si-C and Si-P-C hybrids for LIB anodes	Essential Qualification: Master degree in Chemistry/Polymer Science/ Materials Science or equivalent	CHEM	Prof Sarat Kumar Swain swainsk2@gmail.com
	E2.5	Project Associate (PA)	PP membrane separator engineering	Essential Qualification: Bachelor's degree in Engineering or Technology or Medicine/ from a recognized university or equivalent Desirable qualification: Master's Degree in Mechanical/ Production/Chemical Engineering/ MSc in Physics / Chemistry /Natural or Agricultural Sciences/ BVSc/ B. Pharm	PE	Prof Arun Kumar Rout akrout_pe@vssut.ac.in
	E2.6	Project Associate (PA)	Phase change materials and battery TMS	Essential Qualification: B.Tech in Mechanical Engineering with 1st class. Desirable qualification: M.Tech in Thermal Engineering with 1st class Familiar with Experiments and CFD simulation	ME	Prof Aurovindo Mohanty amohanty_me@vssut.ac.in

	E3.1	Project Associate (PA)	P2 cathodes Structured	Essential Qualification: M.Sc./ Integrated M.Sc. in Physics/Applied Physics/ Materials Science with minimum 60% marks Desirable qualification: Qualified in National Eligibility Tests - CSIR-UGC NET, /GATE. / JEST/any National examinations conducted by Central Government Departments and their Agencies etc.	PHY	Prof Akhyaya Pattanaik akhyaya@yahoo.com
	E3.2	Project Associate (PA)	O3 cathodes structured	Essential Qualification: Minimum essential qualification - MSc. and 5 year Int. MSc. (Physics/Applied Physics/Electronics) Desirable qualification: - GATE./ NET/any other national level eligibility test Additional Qualification - M.Tech (Physics, Materials Science. Nanoscience, Metallurgy, Ceramic Engineering, Chemical Engineering, Mechanical Engineering)	PHY	Prof Sunanda Patri skpatri_phy@vssut.ac.in

	E3.5	Project Associate (PA)	First principle calculations on SIB cathodes	Essential Qualification: MSc. and 5-year Int. MSc. (Physics/Applied Physics/Electronics) Desirable qualification - GATE./ NET/any other national level eligibility test Additional Qualification - M.Tech (Physics, Materials Science. Nanoscience, Metallurgy, Ceramic Engineering, Chemical Engineering, Mechanical Engineering)	PHY	Prof M P K Sahoo mpksiit@gmail.com
	E3.6	Project Associate (PA)	MD simulations on phase stability and diffusion of SIB cathodes	Essential Qualification: Minimum essential qualification - MSc. and 5 year Int. MSc. (Physics/Applied Physics/Electronics) Desirable qualification: - GATE./ NET/any other national level eligibility test Additional Qualification - M.Tech (Physics, Materials Science. Nanoscience, Metallurgy, Ceramic Engineering, Chemical Engineering, Mechanical Engineering)	PHY	Prof Soumya Saswati Sarangi sssarangi_phy@vssut.ac.in
	E4.2	Project Associate (PA)	Green Hydrogen Integration and Microgrid Stability	Essential qualification: BTech/ BE in Electrical/Electrical and Electronics/ Control		Banaja Mohanty bmohanty_ee@vssut.ac.in

				Engineering or equivalent Engineering from a recognized university or equivalent with special interest in Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors. Desirable qualification: MTech/ ME/ M.S. in Electrical / Control Engineering/ Energy Engineering/ Power System/Power Electronics/ Control and Instrumentation or equivalent, relevant to the area of research	EE	
	E4.6	Project Associate (PA)	RE Integrated Secure Network Control and Protection	Essential qualification: BTech/ BE in Electrical/Electrical and Electronics/ Control Engineering or equivalent Engineering from a recognized university or equivalent with special interest in Power Systems, Microgrid Control, Operation, and Cybersecurity, Power Electronics and Drives, Active Power Filter, Renewable Energy & EV, AI/ML-based Control Applications, Battery, Hydrogen Storage, Fuel Cells, Supercapacitors. Desirable qualification: MTech/ ME/ M.S. in Electrical / Control	EE	Debidasi Mohanty ddmohanty_ee@vssut.ac.in

				Engineering/ Engineering/ System/Power Control and Instrumentation or equivalent, relevant to the area of research	Energy Power Electronics/	
Environment						
	N1.2.2	Jounior Research Fellow (JRF)	Designing and fabrication of hybrid column for chromium removal at lab scale	Essential Qualification: Post Graduate Degree in Chemistry or Graduate/ Post graduate Degree in chemical engineering, food technology, environmental engineering, biotechnology from a recognized university selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET, including lectureship (Assistant Professorship) and GATE. b) The selection process through National examinations conducted by Central Government Departments and their Agencies and Institutions, such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc.	CHEM ENGG	Krushna Prasad Shadangi kpshadangi_chemical@vssut.ac.i n
	N 1.2.3	Project Associate (PA)	Sustainable strategies for nanoparticles based removal of	Essential qualification: M.Sc. in Chemistry/Applied Chemistry/Polymer Science/Materials Science		Bigyan Jali bigyan.jali7@gmail.com

			heavy metals and toxic pollutants from wastewater	from a recognized Institute/University. Preference will be given to NET/GATE qualified students. Desirable qualification: Applicants should have sound knowledge about handling of sophisticated instruments and synthesis of chemical compounds	CHEM	
	N.8	Jounior Research Fellow (JRF)	Design and development of sustainable water lubricated bearings with modified structure, closed-loop water lubrication system for watercraft	Essential qualification: Post Graduate Degree in Basic Science or Graduate/ Post graduate Degree in Professional course selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET, including lectureship (Assistant Professorship) and GATE. b) The selection process through National examinations conducted by Central Government Departments and their Agencies and Institutions, such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc.	ME	Padmanav Dash pdash_me@vssut.ac.in
	N 2.2	Jounior Research Fellow (JRF)	Design and development of smart sensors and Li-Fi enabled	Essential qualification: Post graduate Degree in Professional courses selected through a process described		Gyan Ranjan Biswal gyanbiswal@vssut.ac.in

			sensor networks for detecting gas leakages	through any one of the following: a) Scholars who are selected through National Eligibility Tests - CSIR - UGE NET, including lectureship (Assistant Professorship) and GATE. b) The selection process through National examinations conducted by Central Government Departments and their Agencies and Institutions, such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc. Preference shall be given to: (I) Degree holders to M.Tech. in the discipline of Electronics and Communication Engineering/ Electronics and Instrumentation Engineering/ Instrumentation Engineering with specialization in Communication Engineering/ Communication System Engineering/ Instrumentation Engineering with at least 60% in aggregate or 6.5 CGPA on 10-point scale. (II) GATE qualification. (III) Candidates with similar/related project experience	EEE	
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	N 2.3.1	Project Associate (PA)	Development of Advanced Characterization Techniques for Next-Generation Mixed Matrix and Composite Membranes	Essential qualification: M Sc (Chemistry), with minimum of 60% marks in M Sc. Desirable qualification: GATE/NET qualification.	CHEM	Achyut Kumar Panda achyut.panda@gmail.com
	N 3.1.2	Project Associate (PA)	Engineering Degradable Supramolecular–Covalent Hybrid Networks for Enhanced Mechanical and Rheological Performance	Essential qualification: M.Sc. in Chemistry/Applied Chemistry/Polymer Science/Materials Science from a recognized Institute/University. Preference will be given to NET/GATE qualified students. Desirable: Applicants should have sound knowledge about handling of sophisticated instruments and synthesis of chemical compounds.	CHEM	Aruna Kumar Barick akbarick@gmail.com
	N 3.4.2	Junior Research Fellow (JRF)	Development of Sustainable Self-Compacting Geopolymer Concrete through use of industrial and agricultural waste.	Essential Qualification: B.Tech/B.E. in Civil Engineering with a minimum CGPA of 6.5 (60%)/1st class with valid GATE/NET score, and M.E./M.Tech in Structural Engineering/Construction Technology and Management/Construction Management/Construction Technology with a minimum CGPA of 6.5/Percentage 60% /1st class from a recognized Technological University.	CIVIL ENGG	S. K. Panigrahi skpanigrahi_ce@vssut.ac.in

				The candidate must be selected through a process described through any one of the following: a) Scholars who are selected through National Eligibility Tests - CSIR-UGC NET, including lectureship (Assistant Professorship) and GATE. b) The selection process through National examinations conducted by Central Government Departments and their Agencies and Institutions, such as DST, DBT, DAE, DOS, DRDO, MoE, ICAR, ICMR, IIT, IISc, IISER, NISER, etc.		
	N 3.4.3	Project Associate (PA)	Durability Testing and Corrosion Life Modeling of Geopolymer Concrete	Essential Qualification: B.Tech/B.E. in Civil Engineering with a minimum CGPA of 6.5 (60%), and M.E./M.Tech in Structural Engineering/Construction Technology and Management/ Construction Technology with a minimum CGPA of 6.5/Percentage 60% /1st class from a recognized Technological University. Desirable Qualification: Good Background in Concrete Technology with valid GATE/NET Score	CIVIL ENGG	Ramkrishna Dandapat rdandapat@gmail.com

ETC- 06
CSE – 04
CHEM ENGG – 03
EEE – 01
EE – 02
ME – 03
PE – 01
CHEM – 05
PHY – 04
CIVIL E – 02
MME – 01

Total – 32 (4 JRF + 28 Project Associate)