	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	**Essential qualifications: B.Tech in Electronics / Electronics and Telecommunication/Electronics & Communication/ Electronics & instrummetation / Electrical & Electronics/ M.Tech in Electronics / Communication system /Electronics & Communication/ Electronics & instrummetation / Electrical & Electronics 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**	**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 fileld 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 with minimum of 6.5 CGPA in 10 point scale or minimum of 60% mark** **OR** **M Tech (CSE/ EE/ EEE/ ETC/ ECE/ IT) with 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 **mailtobnaik@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 mailtobnaik@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**	**EEE**	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/AIML/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 fileld 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 & instrummetation / Electrical & Electronics/ M.Tech in Electronics / Communication system /Electronics & Communication/ Electronics & instrummetation / 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 recognozed 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 Stuctured cathodes	**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 structured 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 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/ Energy Engineering/ Power System/Power Electronics/ Control and Instrumentation or equivalent, relevant to the area of research		
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-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.**	**CHEM ENGG**	Krushna Prasad Sharangi kpshadangi_chemical@vssut.ac.in
	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-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.**	**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**	

	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	Jounior 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-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.**		
	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 – 03
CHEM ENGG – 03
EEE – 02
EE – 02
ME – 03
PE – 01
CHEM – 05
PHY – 04
CIVIL E – 02
MME – 01

Total – 32 (4 JRF + 28 Project Associate)