SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING,

KALAVAKKAM 603110

(An Autonomous Institution, Affiliated to Anna University)

SSN – RESEARCH INTERNSHIP FOR STUDENTS OF OTHER INSTITUTIONS

Student Summer Internship (SSI 2023)

Students pursuing UG/PG degree in any academic institution, willing to carry out Summer Internship at SSN College of Engineering, Chennai in the fields of Bio medical Engineering, Civil Engineering, Chemical Engineering, Computer Science and Engineering, Electrical and Electronics Engineering, Electronics and Communication Engineering, Mechanical Engineering, Information Technology, Mathematics, Physics and Management may apply for the Internship Program.

Application should be submitted using the link given below:

https://docs.google.com/forms/d/e/1FAIpQLSdhX6KLCVRVbMNFOES1jyBWdG0DqfW5kb0o3YC6gcPc0pCe6w/viewform?usp=sf_link

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Research Topic: Select the topic from the list available in the SSN website

Internship mode: Offline

Duration: 4 to 8 Weeks

Period: 29th May 2023 – 22nd July 2023

Last date for applying: 12th May 2023

List of selected candidates will be available on the website on 24th May 2023

Selected interns will be given a monthly stipend of Rs 3000 and free accommodation in the Hostel.

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SRI SIVASUBRAMANIYA NADAR COLLEGE OF ENGINEERING, KALAVAKKAM 603110

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STUDENT RESEARCH INTERNSHIP SCHEME (MAY-JULY 2023)

LIST OF INTERNSHIP PROJECTS

S.No	Project ID	Name of the Faculty Mentor	Department	Title for Internship	Prerequisites	Email id
1	BME01	Dr. S. Arun Karthick	BME	Preparation and Characterization of Cerium oxide nanoparticle incorporated polyacrylonitrile nanofibers	-	arunkarthicks@ssn.edu.in
2	BME02	Dr. M. Dhanalakshmi	BME	Automatic speech recognition	Deep learning, machine learning, python, signal processing	dhanalakshmim@ssn.edu.in
3	BME03	Dr J Vijay	BME	Hemodynamic investigation on retinal flow velocity to detect diabetic retinopathy using Synopsys Simpleware	Image Processing	vijayj@ssn.edu.in
4	BME04	Dr.A.Kavitha	BME	Virtual reality for attention training	Basic coding skills, Interest in developing Virtual reality environments.	kavithaa@ssn.edu.in
5	BME05	Dr.A.Kavitha	BME	Virtual reality based based gaming for rehabilitation	Basic Coding Skills, Interest in developing Virtual reality environments	kavithaa@ssn.edu.in
6	BME06	Divya B	BME	Brain-computer Interface- AI based P300 speller	Basic coding skills, Matlab, Python etc	divyab@ssn.edu.in
7	BME07	Divya B	BME	Artificial Intelligence based disease diagnosis	Basic Coding skills in Matlab or Python	divyab@ssn.edu.in
8	CHEM01	Dr V Jaikumar	Chemical	Anti-inflammatory and wound healing activity of herbal medicine	Basic Biology Knowledge	jaikumarv@ssn.edu.in
9	CHEM02	Dr V Jaikumar	Chemical	Green synthesis of nanoparticle and evaluating its anticancer property	Basic Nanotechnology	jaikumarv@ssn.edu.in
10	CHEM03	Dr V Jaikumar	Chemical	Extraction of different food colourants from plant sources	Mass Transfer	jaikumarv@ssn.edu.in
11	CHEM04	Dr V Jaikumar	Chemical	Role of machine learning in optimization of bioethanol production	Basics of Biofuels	jaikumarv@ssn.edu.in
12	CHEM05	Dr V Jaikumar	Chemical	Extraction of bio polymers from waste	Mass Transfer and polymer	jaikumarv@ssn.edu.in

13	CHEM06	Dr V Jaikumar	Chemical	Fabrication of membrane and membraneless MFC	Fuel cell	jaikumarv@ssn.edu.in
14	CHEM07	Dr. B. Chitra	Chemical	Simulation and analysis of nanofluids applications using Aspen Plus	Basic knowledge on chemistry, thermodynamics and heat transfer	chitrab@ssn.edu.in
15	CIVIL01	Dr.Sivapriya S.V	Civil	Investigating the behaviour of natural fiber as reinforcement material in a cohesionless soil slope	-	sivapriyasv@ssn.edu.in
16	CSE01	K. Lekshmi	CSE	Histopathology Image Analysis	Python	lekshmik@ssn.edu.in
17	CSE02	Dr.S.KAVITHA	CSE	Study and working on Explainable AI (XAI) Tools	Programming knowledge in Python and basic knowledge in Artificial Intelligence (AI)	kavithas@ssn.edu.in
18	CSE03	Dr. B. Bharathi	CSE	Development of dialect based Tamil speech recognition system	Python	bharathib@ssn.edu.in
19	CSE04	Dr. B. Bharathi	CSE	Tamil speech data collection and annotation	Read and write Tamil lanugage	bharathib@ssn.edu.in
20	ECE01	Dr. M. Gulam Nabi Alsath	ECE	THz component design for B5G	Experience in any EM solver (but not mandatory)	gulamnabialsathm@sn.edu.in
21	ECE02	S. Sakthivel Murugan	ECE	Analysis of underwater animal acoustic signal using DL/ML	DL/ML fundamentals	sakthivels@ssn.edu.in
22	ECE03	S. Sakthivel Murugan	ECE	Hybrid underwater energy harvesting system	EEE students	sakthivels@ssn.edu.in
23	ECE04	S. Sakthivel Murugan	ECE	Testing of acoustic signal transmission in underwater	Communication systems	sakthivels@ssn.edu.in
24	ECE05	S. Sakthiveo Murugan	ECE	Development of navigation system for underwater ROV	Robotics	sakthivels@ssn.edu.in
25	ECE06	S. Sakthivel Murugan	ECE	Testing of an underwater ROV in test tank	Robotics and communication	sakthivels@ssn.edu.in

26	ECE07	S. Sakthivel Murugan	ECE	Testing and analysis of Hybrid ROV with arm	Mechanical and Robotics	sakthivels@ssn.edu.in
27	ECE08	G. Durga	ECE	Device simulation using TCAD	Basics of Electronic devices and circuits	durgag@ssn.edu.in
28	ECE09	Dr.R.Hemalatha	ECE	Surveillance System using Computer Vision	Basic Programming Knowledge	hemalathar@ssn.edu.in
29	ECE10	Dr.R.Hemalatha	ECE	LoRA enabled Precision Farming	Python	hemalathar@ssn.edu.in
30	ECE11	Dr.R.Amutha	ECE	Image encryption using Machine Learning	Python / Matlab	amuthur@ssn.edu.in
31	ECE12	Dr.R.Amutha	ECE	Character Recognition using deep learning	Python / Matlab	amuthur@ssn.edu.in
32	ECE13	Dr.K.Muthumeenakshi	ECE	Colour Detection using Image Processing	Python / Matlab	muthumeenakshik@ssn.edu.in
33	EEE01	Dr. R. Ramaprabha	EEE	Design and Simulation of Bidirectional Converter Suitable for EV Applications	Power Electronics, MatLab/Simulink	ramaprabhar@ssn.edu.in
34	EEE02	Dr. R. Ramaprabha	EEE	Implementation of MPPT for PV System	Power Electronics, MatLab-Simulink	ramaprabhar@ssn.edu.in
35	EEE03	Dr. R. Arun	EEE	Design and Development of IoT Enabled Process Monitoring System	IoT, Arduino/Python Programming	arunr@ssn.edu.in
36	EEE04	Dr M Pandikumar	EEE	Grid connected Solar Photovoltaic system	Power Electronics, Power Control	pandikumarm@ssn.edu.in
37	EEE05	Dr R Leo	EEE	IOT and Machine learning based building energy management	basic knowledge of IOT and Machine learning	leor@ssn.edu.in
38	IT01	Arulkumar venkatachalam	IT	Mobile App development	Java, flutter framework	arulkumarv@ssn.edu.in
39	IT02	Karthika S	IT	Exploratory data analysis using Python	Python	skarthika@ssn.edu.in
40	IT03	J. K. Josephine Julina	IT	Hand Pose Estimation with MediaPipe	Sign language recognition	josephinejulinajk@ssn.edu.in
41	IT04	Dr. N. Radha	IT	Automatic dubbing: Speech dubbing of multi-source data	Data, Text-to-speech system	radhan@ssn.edu.in

				Analyzing the feasibility and effectiveness of decentralized metaverse platforms that utilize blockchain technology to provide users with decentralized, secure, and transparent virtual experiences	Knowledge of Blockchain and NFT	bhalajin@ssn.edu.in
42	IT05	N.Bhalaji	IT			
43	IT06	Dr. T. Sree Sharmila	IT	Virtualization of a scene	Unity or Unreal Engine	sreesharmilat@ssn.edu.in
44	IT07	Dr. T. Sree Sharmila	IT	Image dehazing	Image processing & deep learning	sreesharmilat@ssn.edu.in
45	IT08	Dr. T. Sree Sharmila	IT	Digital health camp	Mobile and web application development	sreesharmilat@ssn.edu.in
46	IT09	Dr. T. Sree Sharmila	IT	Target detection in SAR images	AI, ML and satellite images	sreesharmilat@ssn.edu.in
47	IT10	Dr. T. Sree Sharmila	IT	Defect detection for industrial applications	ML and deep learning	sreesharmilat@ssn.edu.in
48	IT11	S Sasirekha	IT	AI powered Grievance Management System	Web designing basics	sasirekhas@ssn.edu.in
49	IT12	Swathika R	IT	Automatic image captioning for Radiology Images	Machine Learning, Basic Programming	swathikar@ssn.edu.in
50	IT13	Dr. I. Joe Louis Paul	IT	Mesh-Enabled Environment Monitoring and Alert System (EMAS)	Basic knowledge of electronics and programming in Python	joelouisi@ssn.edu.in
51	IT14	Dr. I. Joe Louis Paul	IT	Automatic Vehicle Accident Detection and Rescue System	Basic knowledge of electronics and programming in Python	joelouisi@ssn.edu.in
52	IT15	Dr. I. Joe Louis Paul	IT	IoT based Waste Management System for Smart Cities	Basic knowledge of electronics and programming in Python	joelouisi@ssn.edu.in
53	MATH01	Dr. M. Shanmugapriya	Mathematics	Neutrosophic sets in Decision making problems	Set Theory, Fuzzy sets	shanmugapriyam@ssn.edu.in
54	MATH02	Dr. R. Sundareswaran	Mathematics	Graph Theory, Neutrosophic graphs	Graphs and Fuzzy sets	sundareswaranr@ssn.edu.in

55	MATH03	Dr.B.Praba	Mathematics	Uncertainty and Decision making	Basic understanding of mathematics in Under graduate/Post graduate level.	prabab@ssn.edu.in
56	MATH04	Dr. C. Kalaivani	Mathematics	Neutrosophic topology and its applications	Nil	kalaivanic@ssn.edu.in
57	MATH05	S. Sophia	Mathematics	State Dependent Queuing Systems	M.Sc. Mathematics	sophias@ssn.edu.in
58	MATH06	T. M. Rajalaxmi	Mathematics	Embedding problems in graph networks	Python, Matlab	rajalaxmitm@ssn.edu.in
59	MATH07	Dr. S. Yugesh	Mathematics	Approximation by exponential sampling series	Basic approximation properties	yugeshs@ssn.edu.in
60	MATH08	Sundarakannan M	Mathematics	Study of Dominating nodes in hypercube	M.Sc., / M.Phil	Sundarakannanm@ssn.edu.in
61	MATH09	S. VANITHA	Mathematics	Analysis of Queueing Systems	Matlab, C, Python	vanithas@ssn.edu.in
62	MATH10	Dr. S. Sampath Kumar	Mathematics	Graph indices	Graph theory knowledge	sampathkumars@ssn.edu.in
63	MATH11	Dr. S. Yugesh	Mathematics	Exponential sampling Approximation	Approximations	yugeshs@ssn.edu.in
64	MBA01	Dr. Kirubaharan Boobalan	MBA	Consumer Based research with respect to any product or service	Having some knowledge on consumer behaviour is highly appreciated	kirubaharanb@ssn.edu.in
65	MECH01	Dr. Satheesh Kumar Gopal	Mechanical	Design an end-effector for plucking tomato	Basic knowledge in Arduino	satheeshkumarg@ssn.edu.in
66	MECH02	Dr ALPHIN M S	Mechanical	Virtual Reality in Human Factors Design	Digital Tools, Video rendering	alphinms@ssn.edu.in
67	MECH03	Dr. T. MICHA PREMKUMAR	Mechanical	Refrigeration and Air conditioning Internship	Maths, physics and chemistry	michapremkumart@ssn.edu.in
68	MECH04	Dr. S. Santosh	Mechanical	Shape memory alloys for actuator and robotic applications	NIL	santoshs@ssn.edu.in
69	PHY01	Dr. S. MASILLA MOSES KENNEDY	Physics	Synthesis and characterization of phosphors for light applications	Chemicals, characterization equipments	kennedysmm@ssn.edu.in

70	PHY02	Dr. S. MASILLA MOSES KENNEDY	Physics	Synthesis and characterization of Eu doped phosphate phosphors	Chemicals, Characterization equipments	kennedysmm@ssn.edu.in
71	PHY03	Dr. S. MASILLA MOSES KENNEDY	Physics	Synthesis and characterization of lanthanide doped silicate phosphors	Chemicals, Characterization equipments	kennedysmm@ssn.edu.in
72	PHY04	Dr. S. MASILLA MOSES KENNEDY	Physics	Synthesis and characterization of metal ions doped phosphors	Chemicals, Characterization equipments	kennedysmm@ssn.edu.in
73	PHY05	A CHANDRASEKARAN	Physics	Study about the effect of chromate industries on natural radioactivity in soil samples	M.Sc Physics & Chemistry	chandrasekarana@ssn.edu.in
74	PHY06	A CHANDRASEKARAN	Physics	Analysis of recently excavated archeological terracotta pottery samples of Tamil Nadu by spectroscopic techniques.	M.Sc Physics or Chemistry	chandrasekarana@ssn.edu.in
75	PHY07	A CHANDRASEKARAN	Physics	Heavy and light mineral analysis of industrially polluted lake sediments	M.Sc Physics or Chemistry	chandrasekarana@ssn.edu.in
76	PHY08	A CHANDRASEKARAN	Physics	Measurment of external and internal gamma dose assessment in concrete hollow blocks	M.Sc Physics or Chemistry	chandrasekarana@ssn.edu.in