



Dr. BESTLEY JOE S

Assistant Professor (Sr.G), SRM Institute of Science & Technology, Vadapalani Campus, Chennai, India

TEACHING EXPERIENCE: 12 years 7 months

ASSISTANT PROFESSOR (Sr.G) • SRM INSTITUTE OF SCIENCE & TECHNOLOGY, VADAPALANI CAMPUS • JANUARY 2025 TO PRESENT

ASSISTANT PROFESSOR • KINGS ENGINEERING COLLEGE • OCTOBER 2021 TO DECEMBER 2024

- Electronic devices
- Electronic Circuits
- Electrical & Instrumentation Engineering
- Transducer Engineering
- Basics of Biomedical Engineering

CONTACT INFO

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Address:
C5, Golden Avenue, Plot:54,
Selva Nagar (Via Royappa
Nagar), Varadharajapuram,
Chennai-600 048

OBJECTIVE

Seeking an academic position as a researcher and lecturer in the field of Electrical and Electronics Engineering. Perform research, including teaching courses and supervising students in their academic assignment and research work.

SKILLS

SOFTWARES: Orcad, Comsol Multiphysics, NI Multisim, Electronics Workbench.

APPLICATIONS: MS Word, PowerPoint, Excel.

ASSISTANT PROFESSOR • SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, INDIA • JUNE 2012 TO MAY 2021

- Bachelor
 - Electronics Devices & Circuits
 - Sensors and Transducers
 - VLSI design
 - Basic Electrical Engineering
 - Discrete Electronic Circuits
- Masters
 - MEMS in healthcare
 - Biosensing technologies
 - Advanced Industrial Instrumentation

EDUCATION

PhD • MEMS-Energy Harvesting.

• JUNE 2022 • SATHYABAMA INSTITUTE OF SCIENCE & TECHNOLOGY, INDIA

Title of Ph.D Thesis: Investigations on the electrical characteristics of cantilever beam and nanowire based structures for piezoelectric energy harvesting applications

MASTERS OF ENGINEERING (APPLIED ELECTRONICS)

• JUNE 2012 • ANNA UNIVERSITY, INDIA

BACHELOR OF ENGINEERING (ELECTRONICS & INSTRUMENTATION ENGINEERING)

• JUNE 2010 • ANNA UNIVERSITY, INDIA

CONFERENCES PRESENTED

- 1) **Bestley Joe. S**, Lavanya K, "Error detection implementation using CRC on an FPGA for zigbee protocol", Proceedings of International Conference on Emerging Trends in Communication (ICETC12), pp. 193-197.
- 2) **Bestley Joe. S**, Aaron James. S, Suresh. N, Aditya Harsha Kiran Chivukula, "A Novel vulnerability assessment and observatory of tsunami disaster using Kalman filter", IEEE International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT-2015), pp. 715-719.
- 3) **Bestley Joe. S**, Maflin Shaby. S, "A Systematic review on the research headway of Piezoelectric diaphragms for micro electromechanical applications", IEEE International Conference on Control, Instrumentation, Communication and Computational Technologies (ICCICCT-2016), pp. 399-408.
- 4) **Bestley Joe. S**, Maflin Shaby. S, "A Comprehensive Survey on the Research Headway of Piezoresistive Diaphragms for Micro Electromechanical Applications", IEEE International Conference On Intelligent Computing, Instrumentation And Control Technologies (ICICICT- 2017), pp. 1513-1521.
- 5) **Bestley Joe. S**, Gomathi. T, Samuel Rajesh Babu. R., "Efficient low wind energy harvesters for wireless sensor networks", IEEE Second International Conference on Inventive Systems and Control (ICISC 2018), pp. 785-790.
- 6) **Bestley Joe. S**, Gomathi. T, Maflin Shaby S, Pandian R, "Driving Aid in Cloudy Conditions using Contrast Restoration", IEEE International Conference on Electrical, Electronics, Computers, Communication, Mechanical and Computing (EECCMC 2018), pp. 144-149.
- 7) Samuel Rajesh Babu R, Sindhuja S, **Bestley Joe S**, Sabarivani A, "Photovoltaic supplied push pull converter for wireless power transfer applications", IEEE Innovations in Power and Advanced Computing Technologies (i-pact), pp. 1-4.
- 8) Rajesh Kumar Sharma, Gaurav Kumar, **Bestley Joe S**, "Smart Helmet prototype for safety riding and alcohol detection", IEEE Humanitarian Technology Conference, pp. 84-88
- 9) **Bestley Joe S**, Gomathi T, Marshiana D, Krishnamoorthy N. R, "Effects of joule heating on the temperature voltage relationship in copper", International Conference on Inventive Computation Technologies [ICICT 2021], pp. 1057-1060
- 10) V Amala Rani, D Marshiana, D Jamuna Rani, G Rajalakshmi, **Bestley Joe S**, "Implementation of hybrid model Converter for Photovoltaic Applications", International Conference on Mathematical Sciences (ICMS 2020), Journal of Physics: Conference Series, 1770 (2021) 012099.
- 11) **Bestley Joe S**, Maflin Shaby S, "Performance analysis on the electrical behaviour of Zinc oxide based nanowire for energy harvesting applications", Fifth International Conference on Electronics, Communication and Aerospace technology (ICECA-2021), pp. 232-238.
- 12) Lekashri S, Jacintha V, **Bestley Joe S**, A N Duraivel, P Veeraraghavan, "FPGA based Silicon on Chip using Flexible digital pre-distortion for software defined radio transceiver", Sixth International Conference on Computing Methodologies and Communication (ICCMC-2022), pp. 478-481, doi: 10.1109/ICCMC53470.2022.9754081.
- 13) Madhan Kumar U, Bunga Pavan, **Bestley Joe S**, "Implementation of Auto operated Attendance Recording Aystem in Educational Institutions", International virtual conference on Research Innovation in Science, Engineering and Technology (IVCRASET-2022), pp. 34.
- 14) Harikrishnan, Ajay Shawak, Jay, Abishek & **Bestley Joe S**, "Gas Leakage monitoring and alerting system", International conference on Innovation Challenges in Engineering and Technology (ICICIET-2023) pp. 49.
- 15) **Bestley Joe S**, Harikrishnan E, et al "Gas leakage monitoring and Alerting system", International Conference on Innovation and Challenges in Engineering and Technology (ICICIET-2023), pp. 50.

16) B Pradeep Raj, S M Abdul Ajees, M Hariharan, K Harisharan, **Bestley Joe S**, "AI technology and IOT based anti robbery system for banks and jewellery shops", International conference on Innovation Challenges in Engineering and Technology(ICICIET-2024), pp. 142.

17) Vanitha, V., **S. Bestley Joe**, Rahul Krishnan, AS Augustine Fletcher, M. Anju, and V. Akila. "Cognitive Threats Detection Model using Nature Inspired Chimpanzee Optimization for IoT Networks (CCM-COM)." In The 2025 International Conference on Advanced Research in Electronics and Communication Systems (ICARECS-2025), pp. 629-637. Atlantis Press, 2025.

PUBLISHED ARTICLES IN JOURNALS

1) **Bestley Joe. S**, Vamsi Krishna.P, "Intelligent traffic regulation system for roads using car two way communication", International Journal of Research in Engineering and Technology, vol.3, no. 6, 2014, pp. 451-453.

2) **Bestley Joe. S**, "Stability enhancement for a practical distribution system with optimal tuned PV based STATCOM", International Journal of Applied Engineering Research, vol.9, no.24, 2014, pp. 30043-30051.

3) **Bestley Joe. S**, "A dual face detection water marking system using Sf for verifying security", International Journal of Applied Engineering Research, vol.10, no.5, 2015, pp. 11599-11609.

4) Vinothkumar C, Rajalakshmi G, **Bestley Joe. S**, "High performance radio frequency identification system for unmanned railway level crossing", International Journal of Engineering and Technology, vol.7, no.3, 2015, pp 1062-1068.

5) **Bestley Joe. S**, Aaron James. S, "Automation of Mill lubrication system using programmable logic controller", International Journal of Pharmacy & Technology, vol. 7, no. 1, 2015, pp. 8028-8039.

6) Suresh,N, Aaron James. S, **Bestley Joe. S**, Amalarani.V, "Modernized Control Of Leningrad Metal Works Turbine Using Restricted Governing Mode Of Operation", International Journal of Pharmacy & Technology, vol. 7, no. 2, 2015, pp. 9225-9234.

7) Aaron James. S, Amalarani. V, **Bestley Joe. S**, "Automatic control of boiler system using distributed control system", International Journal of Pharmacy & Technology, vol.7, no.2, 2015, pp. 9190-9211.

8) Amalarani. V, Aaron James. S, Adeline Sneha. J, **Bestley Joe. S**, "PLC Based process control automation using GSM and SCADA Technology", International Journal of Pharmacy & Technology", vol.7, no.2, 2015, pp. 9243-9251

9) S. Lalithakumari, R. Pandian, Jamuna Rani, D. Vinothkumar, Adeline Sneha, Amalarani. V and **Bestley Joe**, "Selection of optimum compression algorithms based on the characterization on feasibility for medical image", Biomedical Research, vol.28, no.13, pp.5633-5637.

10) Pandian R, Lalithakumari S, V Amala Rani, **Bestley Joe**, Anne Frank Joe "Performance of Loops in medical image compression", Biomedical Research, Vol. 29, issue.15, pp. 3054-3056

11) **Bestley Joe. S**, Mathan. N, "Investigation on Remote Verification Scheme Applying Biometrics in Wireless Networks using Steganographic Method", International Journal of Control, Theory and Applications, vol.10, no.25, pp. 87-100.

12) R. Pandian, Dr. S. Lalitha Kumari, **Bestley Joe S**, "Bio Medical Image Transmission using Steganography", Research Journal of Pharmacy and Technology, vol.10, no.11, pp. 1994-1996.

13) **Bestley Joe S**, Gomathi T, Maflin Shaby S, Pandian R, "Self-Assistance devices for Asthma Patients Using Android Application", Research Journal of Pharmacy and Technology, vol. 11, No.5, pp. 1945-1950.

14) Noel Rohith Mervin, Aravind R, **Bestley Joe S**, “PLC based automatic grinding system for door frames”, International Journal of Engineering & Technology, vol.7, issue. 2.25(2018), pp. 170-174

15) **Bestley Joe S**, Maflin Shaby. S, Rajasekaran. S, “Comparative analysis of MEMS piezoelectric cantilever beam for energy harvesting application based on mechanical vibrations”, International Journal of Engineering & Technology, vol.7, issue. 4(2018), pp. 3543-3547.

16) **Bestley Joe S**, Maflin Shaby S, “Analysis of Piezoelectric energy scavenging Trimorph Microcantilever beam”, International Journal of Scientific & Technology Research, vol.8 , no.10, pp. 2054-2058.

17) **Bestley Joe S**, Ramadevi R, V Amala Rani, G Rajalakshmi, “Automatic Cooking machine using Arduino”, International Journal of Emerging Trends in Engineering Research, vol.8, no. 1, pp. 35-40.

18) Ramadevi R, Marshiana D, **Bestley Joe S**, Jamuna Rani D, “Recurrent Neural Network (RNN) analysis for brain tumor classification using decision tree classifiers”, Journal of Critical Reviews, vol. 7, no. 6, pp. 2202-2205.

19) **Bestley Joe S**, Gomathi T, V Amala Rani, N R Krishnamoorthy, “In situ developmental control of biomedical applications using human brain”, International Journal of Advanced Trends in Computer Science & Engineering, vol. 9, No. 4, pp. 6063-6066

20) **Bestley Joe S**, Maflin Shaby S, “Characterization and performance analysis of piezoelectric ZnO nanowire for low-frequency energy harvesting applications”, Applied Nanoscience, <https://doi.org/10.1007/s13204-021-01964-8>.

MEMBERSHIP IN PROFESSIONAL BODIES

- ❖ Member of Institute of Electrical and Electronics Engineers (IEEE)
- ❖ Life member of Instrument Society of India (ISOI)
- ❖ International Society for Research and Development (ISRDR)

INVITED TALKS

- ❖ World conference on Advanced Materials, Nanoscience and Nanotechnology, October 27-28, 2022, Valencia, Spain-Title: “Piezoelectric Energy harvesters using Nanowires.”
- ❖ International Webinar-Material Science & Nanotechnology Congress-2022, Australia, December 1, 2022- Title: “Significance of doping in nanowires for energy scavenging purposes.”
- ❖ International Conference on Advanced Nanotechnology & Nanomaterials, August 7-8, 2023-Title: “Impact of semiconductor nanowires in energy harvesting.”
- ❖ Ninth International Conference on Materials Science and Engineering, April 11-12, 2024, Rome Italy – Title: “Energy harvesting through diverse nanowires”

TECHNICAL TRAININGS

Sl.No	Topic	Venue	Date
1	Autonomous robotics using discrete electronics	Karunya University	26 & 27 July, 2008.
2	Matlab for signal and image processing toolboxwith Simulink	Sri Muthukumaran Institute of Technology	18 & 19 December,2014.
3	COMSOL 5.2 for Academic Research & Teaching	Anna University	9 Oct, 2015
4	COMSOL 5.3 for Academic Research & Teaching	Anna University	22 March, 2016
5	Systematic research and paper writing	Kongu Engineering College	8 Oct, 2016
6	Effective teaching	Sathyabama University	24 Jan, 2017
7	Web based Design and delivery of Educational contents-NPTEL Courses	Sathyabama University	27 Jan, 2017
8	Nanofabrication Technologies-INUP hands on training	Indian Institute of Technology, Bombay	20-24 March,2017
9	Telecommunications	Techso technologies	15 August, 2017
10	Indian Patenting & filing Procedures	Sathyabama University	19 Aug, 2017
11	High Frequency Test and Measurements	Madras Institute of Technology	28 August- 1 September, 2017
12	Industrial Automation	Micro, small and Medium Enterprises	9-14 Nov, 2017
13	Artificial Intelligence, Machine & Deep Learning in Research Applications	Aarupadai Veedu Institute of Technology	9-11 July, 2018
14	Compact Modelling of MEMS/NEMS devices for next generation wireless communication technologies	Sathyabama Institute of Science & Technology	5-6 Oct, 2018
15	Hands on training program on patent searching,drafting and filing	Sathyabama Institute of Science & Technology	29 Nov, 2018
16	Biomedical Imaging: Advanced FLIM-FRET Microscopy techniques for cancer cellular Imaging	Anna University	17-22 December,2018
17	Industrial Control using PLC, Pneumatics & labVIEW.	National Institute of Technical Teachers Training and Research (NITTTR)	16-20 December 2019
18	Digital Teaching aids and Virtual learning (Online FDP)	Sathyabama Instituteof Science & Technology	15 June 2020 – 20 June 2020
19	Industrial Safety – Concepts and Techniques(Online FDP)	Noorul Islam Center for Higher Education	15 July 2020 – 19 July 2020

20	Intellectual Property Rights and Effective Patent Drafting	Sathyabama Institute of Science & Technology	23 November 2020 – 28 November 2020
21	Innovative Classifier models for Image and Text using Tensorflow	Sathyabama Institute of Science & Technology	9 December 2020 – 15 December 2020
22	Quantum Computing	Sathyabama Institute of Science & Technology	18 January 2021 – 22 January 2021.
23	Sensors Technology	North-Eastern Hill University	8 February 2021 – 12 February 2021
24	Electric Mobility: Development, Integration and Design Challenges	Jerusalem College of Engineering	03 May 2021 – 08 May 2021
25	New trends and challenges in Electric Power Transmission	Velammal College of Engineering and Technology	10 May 2021 – 15 May 2021
26	Trends and Challenges in Machine Learning & Deep Learning	SRM Easwari Engineering College	10 May 2021 – 21 May 2021
27	Control and Applications in Robotics	SRM TRP Engineering College	30 June 2021
28	Emerging Trends in renewable energy and green technology	SRM Easwari Engineering College	21 June 2021 – 02 July 2021
29	Simulation Tools for Research	Sharad Institute of Technology	08 Feb 2022 – 14 Feb 2022
30	Effective teaching learning paradigms through pedagogical Innovations	Sathyabama Institute of Science & Technology	07 Feb 2022 – 12 Feb 2022
31	Familiarization workshop on nanofabrication technologies	Indian Institute of Technology, Bombay	19 Jan 2022 – 21 Jan 2022
32	Groundbreaking Technologies	Panimalar Institute of Technology	09 March 2022 – 15 March 2022
33	Embedded control for Robotic applications	Madras Institute of Technology	19 Jan 2022 – 25 Jan 2022
34	Data Science applied to Measurement & Control	Madras Institute of Technology	31 Jan 2022 – 05 Feb 2022
35	Emerging applications in Image Processing	Rajalakshmi Institute of Technology	01 March 2022 – 05 March 2022
36	Disruptive technologies in communication	Sai Ram Institute of Technology	30 March 2022 – 31 March 2022
37	Recent Trends in Computer and Communication Systems	Kings Engineering College	6 June 2022 – 11 June 2022
38	Quality Assessments and Accreditation in HEIs	Sathyabama Institute of Science & Technology	27 June 2022 – 28 June 2022
39	Advanced materials and process for next generation nanoelectronic devices: Challenges and opportunities	SRM Institute of Science & Technology, Ramapuram Campus	27 June 2022 – 4 July 2022

ONLINE COURSES COMPLETED

Sl.No	Topic	Date	Conducted by
1	COMSOL Multiphysics Online Training	17 July - 21 July, 2017	COMSOL
2	Technical writing for scientists and Engineers - IEEE	27 October, 2017	IEEE
3	IPR Plagiarism Tutorial - IEEE	27 October, 2017	IEEE
4	Nanotechnology & Nanosensors Part-1	22 October- 30 November, 2018	Israel Institute of Technology
5	Mobile Robotics	8 November-18 December, 2018	Swinburne University of Technology, Australia
6	Effective Engineering Teaching in Practice	28 January -22 February, 2019	Indian Institute of Technology, Madras (NPTEL)
7	Introduction to process control and Instrumentation.	16 January 2020	Udemy
8	Complete course in Electrical Measurement & Instrumentation	3 March 2020	Udemy
9	Nanotechnology & Nanosensors Part-2	1 March- 31 March, 2020	Israel Institute of Technology
10	Elements of AI	18 March 2020 – 14 April 2020	University of Helsinki, Finland
11	Basic Electrical Engineering	17 April 2020	Udemy
12	Energy: The Enterprise	8 April 2020 – 25 April 2020	University at Buffalo & the State University of New York
13	Starting up	24 March 2020 – 27 April 2020	Aalto University, Finland
14	Fundamentals of Digital Marketing	3 April 2020 – 29 April 2020	Google Digital Unlocked
15	Safety in the Utility Industry.	13 April 2020 – 9 May 2020	University at Buffalo & the State University of New York
16	Machine Learning	16 May 2020	Tata Steel E-Learning
17	Transformer	22 May 2020	Tata Steel E-Learning
18	Electric Industry Operations and Markets	9 May 2020 – 23 May 2020	Duke University
19	Writing Skills for Engineering Leaders	22 April 2020 – 23 May 2020	Rice University
20	Industry 4.0	31 May 2020	Tata Steel E-Learning

21	Electric Power Systems	5 June 2020 – 4 July 2020	University at Buffalo & the State University of New York
22	Natural Gas	8 June 2020 – 6 July 2020	University at Buffalo & the State University of New York
23	Process Control Engineering for beginner	10 July 2020	SIEMENS Digital Industry Academy
24	Competency-Based Learning: Introduction	11 July 2020	World Health Organization

DEPARTMENT COMMITTEES WORKED

- 1) University Internal Exam Cell coordinator
- 2) Department Industrial visit
- 3) IEEE Student Chapter - staff coordinator
- 4) NPTEL SPOC
- 5) Spoken Tutorial in charge.
- 6) Class advisor/Mentor

INDUSTRIAL TRAINING

Company	Duration	Objective
R.S. Windtech Engineers Private Limited, Aralvaimozhy	2 Weeks.	Study of Wind Power Generation and related Instrumentation
Instrumentation Limited, Palakkad	1 Week	Study of Control valves, Actuators and process control equipments.

ACADEMIC PROJECTS

Project	Duration	Institution
Interactive Voice Response (IVRS) based Temperature Monitoring System	3 months	Noorul Islam College of Engineering
Error detection Implementation using CRC on an FPGA for Zigbee Protocol	10 months	Velammal Engineering College

AREA OF INTEREST

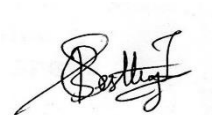
- MEMS (Micro Electro Mechanical System) Energy harvesting

PERSONAL DETAILS

Gender : Male
Date of Birth : 18/07/1989
Nationality : Indian
Languages known : English, Tamil
Marital status : Married
Children : One daughter
Passport number : Y3299592

I hereby declare that the above said details are true to my knowledge.
Thanking you,

Chennai,
18-07-2025.



Yours faithfully,
Bestley Joe S