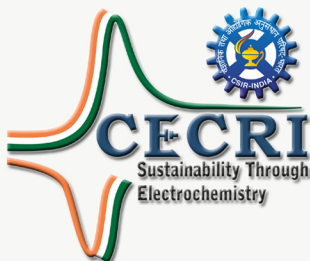


PLACEMENT
PROFILE
2026-27

Centre For Education

B.Tech (Chemical and
Electrochemical Engineering)
(NBA Accredited) Affiliated to
Anna University, Chennai



CSIR-Central Electrochemical Research Institute

Karaikudi-630 003, Tamil Nadu, India



<https://cecri.res.in/Academics/GraduateProgramme/CampusPlacementCell.aspx>



echemplacement@cecri.res.in / cecriplacementcell@gmail.com



04565 241531 / 475 / 411



CSIR-CECRI, Karaikudi - 630 003





*"Great institutions are remembered not for the buildings they own,
but for the ideas they leave behind."*

— John F. Kennedy



Placement Profile

2026-27

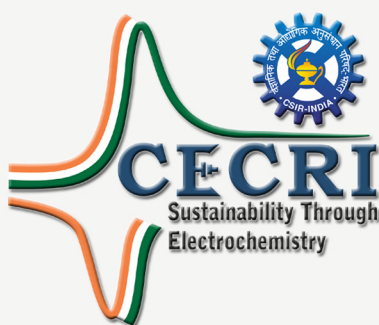


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CSIR-Central Electrochemical Research Institute

Karaikudi-630 003, Tamil Nadu, India





Our Sincere thanks to



Dr K Ramesha

Director, CSIR-CECRI

Dr Sundar Mayavan

Chief Dean, CFE, CSIR-CECRI

Dr K Giribabu

Dean (Administration), CFE, CSIR-CECRI

Mr T Mathankumar

Technical Assistant, CSIR-CECRI

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Photographer





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◆ OUR VISION

To be a leading global R&D centre for electrochemical science and technology through sustained and dedicated efforts focusing on corrosion science and engineering, energy conversion and storage, functional materials and environment.



◆ OUR MISSION



To create and sustain a community of learning in which students acquire knowledge and learn to apply it professionally with due consideration for ethical, logical and economic issues.

To provide knowledge based on technological services to satisfy the needs of the society and the industries.

To help in building professional capabilities in science, technology, humanities, management, education and research.

DIVERSITY OF IDEAS

To encourage plurality and diversity of ideas to create a robust and vibrant future.

ENQUIRY / TRANSPARENCY

To foster the spirit of scientific enquiry.
We exhibit transparency in all that we do.

ACADEMIC FREEDOM

To ensure complete academic freedom in teaching and research.

ENVIRONMENTAL STEWARDSHIP

Committed to developing and participating in green



EXCELLENCE

To endeavour to excel in research, education and student activities.

INTEGRITY

Honest, ethical and responsible behaviour will be fundamental to all our dealings and actions.

ABOUT US

The CSIR-Central Electrochemical Research Institute (CSIR-CECRI), a premier research establishment of electrochemistry in South Asia founded in 1948, has its roots in the patriotic fervour of Padma Bhushan Dr. R. M. Alagappa Chettiar, Pandit Jawaharlal Nehru and Dr. Shanti Swarup Bhatnagar, who conceived the idea of a dedicated research center of electrochemistry in order to cater the demands and needs of society. On January 14, 1953, CECRI became a physical reality when Dr. S. Radhakrishnan dedicated CECRI, the twelfth national laboratory under the CSIR umbrella, to the nation.

CECRI today is a proud family of more than 300 employees, including more than 100 scientists and other staff members. Headquartered at Karaikudi, CECRI has extension centres at Chennai and Mandapam. The CECRI campus has a rich biodiversity of flora and fauna, its ample green and serene environment makes it an excellent place for carrying out R&D work.



CECRI has blossomed into a launching pad for a multitude of technologies for the Indian electrochemical industry. Naturally, reflecting on the fact that the inimitable Dr. Alagappa Chettiar donated 300 acres of land and Rs. 15 lakh in cash in 1948 to establish a national laboratory devoted solely to Electrochemistry at a time when Electrochemistry was relegated to the flip-side of Physical Chemistry syllabi in universities. One cannot miss the rare philanthropy and foresightedness of this great visionary.

In living up to its *raison d'être*, the institute works on a gamut of problems covering all facets of electrochemical sciences and technology, viz., Corrosion & Materials Protection, Electrochemical Power Sources, Electroplating & Metal Finishing, Electrodeposition & Electrocatalysis, Electrochemical Process Engineering and Electro-organic & Materials Electrochemistry. The institute provides a single and unique canopy under which all aspects of electrochemistry and related areas are investigated in all their dimensions. The activities of CECRI are directed towards the development of new and improved products and processes as well as innovations in electrochemical sciences and technology. CECRI undertakes several R&D projects in collaboration with other laboratories and private industries within and outside India.

CECRI also assists Indian industry by conducting surveys and undertaking consultancy projects. CECRI has developed and transferred several technologies to industry and strategic sectors. Lithium-ion battery electrode materials and their fabrication, Super-capacitors, Fuel Cells, Redox flow batteries, CO_2 adsorption under flue gas condition, CO_2 utilization to value-added products like adipic acid, oxalic acid, polyurethane etc., Mg technology, solar powered PEM electrolyser to generate green Hydrogen, Electrowinning of Rare Earth metals and alloys, extraction of metals from secondary sources, trivalent hard chromium thermal barrier coatings and specialized anticorrosive coatings etc., are the significant recent technologies of CECRI.

The institute also conducts short-term refresher courses for the benefit of industry and academia through skill development programmes. As part of its human resource development programme, CECRI offers B.Tech. course in Chemical & Electrochemical Engineering through Anna University, Chennai as well as Ph.D. courses through the Academy of Scientific and Innovative Research (AcSIR), which was established by CSIR. The institute is equipped with an excellent library as well as the state-of-the-art analytical and characterization facilities. CECRI also organizes national and international conferences for dissemination of scientific knowledge through its professional non-profit societies viz. Society for Advancement of Electrochemical Science and Technology (SAEST) and National Corrosion Council of India (NCCI) both of which are functioning in CECRI Campus. CECRI is alive to societal obligations and participates in the activities such as 'Entrepreneur Development' and CSIR's Integrated Skill Development Initiative. The institute has been bestowed with several prestigious awards and recognitions.

◆ DIRECTOR'S MESSAGE

Friends,

Greetings from CSIR-CECRI and a Warm Welcome to our Institute!



I am delighted to express my sincere gratitude to you for taking part in our placement process. With immense pleasure and pride, I invite you to CSIR-CECRI's Centre for Education (CFE), a unique place where the B. Tech. course in Chemical and Electrochemical Engineering is offered in India. I am really proud to state that our CFE provides a distinct and balanced curriculum comprising academic rigour with a flavor of research framework and the essential soft skills for an industrial environment. We produce the country's elite class of chemical and electrochemical engineers year after year.

We have immense pleasure in presenting dynamic leaders and global game changers with their skills honed here for a bright future. Recent accreditation by National Board of Accreditation (NBA), New Delhi to our B. Tech. course for Six Years (2022 to 2028) is an ample testimony to our standard and value in education with which the next generation of electrochemical engineers are being created. Primary objective of the CFE is to provide significant opportunities for the students to learn, excel and most importantly, to develop and tune multiple skills across various aspects of chemical and electrochemical engineering. Here in CECRI, we always encourage our students to realize their passion and potential, which will help them to shine in all their endeavors. For more than three decades, our graduates have set a standard of their own and outperformed themselves in emerging as world-class innovative leaders. Fuelling their passion towards emerging trends, our students also fulfill their academic and research requirements with acumen thereby transforming themselves as great ambassadors of CECRI and electrochemical sciences and technology as a whole.

Our unique undergraduate curriculum is of international standard and is extricably linked with creativity on one hand, and effective hands-on research training on the other. A perfect combination of theory and practice has always been a central element of our teaching. With CECRI being a research institute, the Scientists who are the Faculty Members of CFE, continuously thrive themselves in imparting new and emerging knowledge to the students. In the ever-changing global scenario, we always strive to combine theoretical problems with viable solutions to real-world issues in the curriculum. Our special focus is to contribute to the national and international research communities on one side and to provide innovative contents for teaching on the other. With this perspective, CFE constantly aims to upgrade its intellectual capital and know-how, along with the necessary skill sets for a problem solving attitude.

In CECRI, our students are groomed not only as excellent chemical and electrochemical engineers but also as good humans by providing them ample opportunity to show-case their talents and leadership ability in programs like Armageddon and Intersect etc. Moreover, we also encourage them to participate in various academic and R&D activities of the Institute like National and International Conferences, Summer Internship Programs, interactions with Scientists and PhD Scholars. These activities help them to enhance their cognitive and risk-taking abilities as well as aid them with ample opportunities.

It is my pleasant privilege to invite you to our CSIR-CECRI campus for the placement process of 2023-2027 batch of our B. Tech. and assure a rich and rewarding experience with our young talents. CECRI intends to promote a strong bond and a long-standing R&D collaboration with the industry partners in the near future as well.

Dr. K. Ramesha



DEAN'S MESSAGE



Molding students into effective engineers in a minuscule span of four years is indeed a mammoth task, which depends more on the student's commitment than on the administration. It is the intense commitment and focus of our students, which has uplifted them to such soaring heights.

The development of a nation in all dimensions depends on students, who need to possess well-established technical knowledge along with innovation and creativity. To serve this very purpose, CECRI has striven and is credited for producing immensely talented Chemical & Electrochemical Engineers. I have great faith that the present batch too will exhibit their skills to the greatest extent and play a significant role in achieving efficiency and productivity at their workplaces. The unique four-year B.Tech. program in Chemical and Electrochemical Engineering offered by the CSIR-CECRI under the banner of Centre for Education (CFE), fulfils the expectation of the industry since the curriculum is formulated by experts from various industries and academic institutions.

The important aspects of Electrochemical Engineering such as Electrochemical Reaction Engineering, Electrochemical Process Technology, Electrochemical Energy Sources, Electrochemical Metal Finishing, Corrosion Engineering, Electrochemical Materials Science, Electrodics and Electrocatalysis, etc., are covered exhaustively. The students are exposed to real time projects funded by various agencies that inculcate to understand the problems associated with the society and they learn the techniques and methods to resolve the problems in their formative age. The students are getting opportunity to publish their work in reputed national and international journals and to participate in various conferences and seminars under the guidance of experienced scientists. I take this opportunity to invite the recruiters with assurance that our students possess strong theoretical knowledge, hands-on practical skills, and research experience, making them well-prepared to contribute effectively to your esteemed organization.

Dr. Sundar Mayavan





◆ MESSAGE FROM PLACEMENT OFFICERS



The course B.Tech (Chemical and Electrochemical Engineering) has always been acclaimed for its exhaustive coverage of all concepts in Chemical as well as Electrochemical Engineering, making it a class apart and unique ever since its induction in the year 1988 under the banner of Centre for Education (CFE). The important fact is that all courses are handled by specialized engineers and scientists of CECRI, whose many years of research experience in their respective fields render them fully capable of providing quality technical education. The Placement has been extremely satisfying and our students have been performing exceptionally well. On behalf of the Placement cell, I take immense pleasure in inviting you for on-campus placements 2026-27. Our students have very good knowledge in the areas of Batteries, Electrolyser, Fuel cells, Electroplating and Corrosion. They also have exposure to these areas since they do research work during the course.

Dr. Sundar Mayavan



As a Scientist, I really wonder about the students' desire to research the various electrochemical principles used for applications like Batteries, Corrosion, Water splitting, Fuel cells, Materials protection and Electroplating. With this inquisitive attitude, there is no doubt that the B. Tech. students of CECRI will become tremendous leaders of the future as it provides a platform to showcase their skills. In the past, students have been positioned in high ranks of reputed companies which reflect their professional learning in CECRI. I feel proud of my students and very honored in inviting you to the on-campus placements for the year 2026-2027.

Dr. M. Jayakumar



WHY RECRUIT @ CECRI?

STRINGENT STUDENT SELECTION

All of our students get selected for this Course following a highly competitive and stringent selection process (at school level; through single window counselling of Anna University/based on JEE rank). Merit is the only rewarding criteria followed.

WORLD CLASS CURRICULUM AND FACULTY

As our faculty members are Scientists, actively involved in research and publishing research articles in high impact journals, our curriculum gets constantly updated to gain knowledge in emerging technologies. With their in-depth knowledge and vast experience in their areas of specialization, our faculty members easily make our students understand the core principles of science with real-life examples and also teach them on scaling up principles to applications in the lab/industry. With this kind of world-class mentorship and guidance, students get transformed into experts who can excel in any sort of environment.

BALANCED PERSONALITIES

Our faculty members believe wholeheartedly in helping our students to realize their fullest potential in every field of their interest. Soft skills development is made part of the classroom experience through presentations and open-minded learning components. Extracurricular activities, student-managed clubs and events make them venture into different aspects and to express themselves and develop skills beyond academics.

BECOMING EXTREMELY SUCCESSFUL TECHNOLOGISTS

As a student of CSIR-CECRI, one is encouraged to become a competent technologist, a renowned scientist, a successful entrepreneur and manager, and also a leader of society. Our alumni have proven this by actively engaging with the institute and the students, thereby motivating and guiding them to perform and excel in all ways.

PREMIER RESEARCH INSTITUTION

CSIR-CECRI is a renowned research institution of national importance that has a history of scientific and industrial innovations for the development of the Nation since its inception in 1953.

RESEARCH AMBIENCE

Being an institute where active research is carried out especially with a focus on practical applications, the research ambience prevailing here nurtures the students' minds with the innovative ideas to tackle the existing and emerging global problems and trains them to think critically and beyond the horizon in day-to-day life. Active participation in scientific projects and interaction with scientists in the years of undergraduate study gives them a definite edge over their peers.

HIGHLY MOTIVATED AND RESPONSIBLE STUDENTS

With great freedom comes greater responsibility. Students are highly motivated to organize events like technical fests, cultural events, blood donation camps, social events, etc. under the guidance of faculty members of CSIR-CECRI. Such learning experiences help the students develop eminent leadership and organizational skills which will greatly enhance their performance in industrial scenarios.

◆ CECRI IN NEWS



1. CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi and Asian Paints Ltd., Mumbai, signed an MoU on 2nd April 2026 at CSIR-CECRI for collaborative research in corrosion protection, high-performance and sustainable coating systems for aggressive coastal and marine environments, along with skill development and joint PhD programmes. The MoU signing took place in the presence of scientists, researchers and officials from CSIR-CECRI and Asian Paints Ltd., emphasizing the importance of industry-institute collaboration in advanced coating technologies.

2. The National Conference on Electrochemistry-2026 (NCE-24) organized by the Society for Advancement of Electrochemical Science and Technology (SAEST), featured invited lectures by experts from various domains of electrochemical science and technology during 27 & 28 April 2026 at Amrita Vishwa Vidyapeetham, Coimbatore. Scientists and researchers from various institutions participated in the conference and deliberated on recent advances in electrochemical technologies and sustainable energy systems.



3. CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi, was bestowed with the "17th CIDC Vishwakarma Award 2026" under the category "Achievement Award for Research & Development in Construction Domain" by the Construction Industry Development Council (CIDC), New Delhi. The award was announced during the 17th CIDC Vishwakarma Awards ceremony conducted on 10th April 2026 at DAIC, New Delhi. The recognition highlights CECRI's significant contributions towards research and technological advancements in the construction sector.

4. CSIR-Central Electrochemical Research Institute (CSIR-CECRI), Karaikudi, is leading the development of indigenous Lithium-ion battery technology under the Integrated Centre for Energy Storage Solutions (ICeNGESS) initiative. The initiative focuses on advancing energy storage technologies to support electric mobility, renewable energy integration and sustainable energy applications. Through its research and technology development activities, CSIR-CECRI is contributing towards strengthening indigenous battery manufacturing capabilities and promoting self-reliance in clean energy technologies in line with the "Make in India" vision.



B.TECH PROGRAMME



Established in 1988, by Prof. K.I. Vasu, former Director of CSIR-CECRI, Centre For Education (CFE) was conceptualized as a part of the human resource development program of CSIR-CECRI. CFE offers a unique undergraduate technology degree (B. Tech) in Chemical and Electrochemical Engineering, which is affiliated to Anna University, Chennai and is recognized by the All India Council for Technical Education (AICTE) and the Indian Institute of Chemical Engineers (IIChE). The course is conducted in a research atmosphere with Scientists and specialized Engineers as Faculty members with state-of-the-art laboratory facilities available in the field of Chemical and Electrochemical Engineering. Students can learn and practice the principles of Electrochemical Science and Engineering. CFE, besides committing to world-class research, ensures that B.Tech students are prepared as pioneers ready to face any challenges in the professional world by providing them with a sound conceptual understanding.

CSIR-CECRI is facilitating a unique and holistic educational ecosystem that offers interactive learning, a highly flexible academic structure, cutting-edge research, and strong industrial collaboration. It is providing an environment wherein students need not think twice to translate their dreams into realities. Since theory without practice is useless and practice devoid of theory is dangerous, the incoming students are being trained in all practical aspects strengthened with a sound theoretical background. The professionalism and immense experience of the faculty members of CFE help them upgrade the curriculum in accordance with the changes and developments in the fields of Chemical & Electrochemical Engineering and Technology. Students get exposed to the industrial atmosphere through industrial tours and in-plant training which gives them a perspective of engineering principles working in real-life industrial applications. Interaction with the scientists and working on projects under their guidance has infused a strong desire to innovate and improve in the minds of B.Tech students.



FACULTY

One of the most striking prospects of undertaking CFE's B.Tech program is that all courses are dealt with by scientists and specialized engineers at CECRI, who possess years of research experience in their respective fields. Thus, our students are exposed to cutting-edge research right at the undergraduate level, taking up projects with various scientists of their own interests. Many students have published their work in prestigious journals such as JPC C, PCCP, Langmuir, JECS, JPS, Journal of Metals and Alloys, Journal of Materials Chemistry, Carbohydrate Polymers, IJEST, Corrosion Science and Engineering Failure Analysis. This greatly boosts their chances of admission into doctoral programs at top-ranked universities directly after the completion of B.Tech. Such a trend is evident with regard to the alumni of CECRI, who have pursued their doctorates at universities like MIT, Oxford, Michigan State, Clarkson University, Rensselaer Polytechnic, University of Rhode Island, Georgia Tech, Max Planck Institute, CSIRO, IISc, Manchester University and Penn State amongst many others. The excellent student alumni contact is also another motivating factor for the students.



◆ CO-CURRICULAR ACTIVITIES



INTERSECT

ETA (Electrochemical Technologists Association) is the organization of students and Ph.D. Scholars of CSIR-CECRI chaired by scientists. It presents a national-level symposium every year called Intersect, which is organized by the B.Tech students along with faculty committee members of CSIR-CECRI. This event lets students from all over India highlight their skills in tech, non-tech events and workshops, helping them gain practical knowledge from experts and enjoy cultural activities.

ARMAGEDDON

Armageddon is the annual sports meet for students that builds friendship, teamwork, and sportsmanship. Students compete in a range of events, with the leading team and standout performers honoured with well-deserved awards. The event also helps find and encourage new talents, fostering collective enthusiasm, excellence, and a competitive yet collaborative spirit among participants.



INDUSTRIAL VISIT

Industrial visits allow students to experience how industries operate in real time. Students visited Hollingsworth & Vose (H&V) Advanced Materials in Mysore, known for separator manufacturing and advanced materials solutions; Suryaa Batteries in the Mysore Industrial Estate, which specializes in lead-acid battery manufacturing; and TCP Limited in Karaikudi, a leading producer of inorganic chemicals such as Sodium Hydrosulphite and Liquid Sulphur Dioxide. Through these visits, students learned about battery assembly, separator production, chemical manufacturing

processes, industrial safety measures, quality control techniques, and modern production practices. The visits provided students with practical exposure to industrial processes, helping them understand the industrial applications of engineering concepts.

CECRI ECS STUDENT CHAPTER

The ECS (Electrochemical Society) is a global organization to advance the theory and practice of electrochemical and solid-state science. Our college hosts an active ECS Student Chapter, which serves as an effective platform for students to enhance their knowledge in electrochemistry and related fields. The chapter regularly organizes seminars, workshops, and expert lectures that provide valuable information on emerging technologies, research trends, and industrial practices.



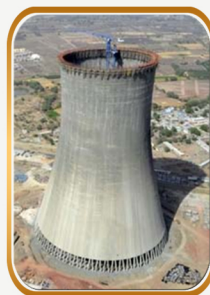
R & D DIVISIONS

CORROSION AND MATERIAL PROTECTION

This division focuses on solving corrosion challenges in oil and petroleum industries, as well as thermal power plants and comes up with a variety of mitigating solutions. Research areas include the development of corrosion inhibitors, protective coatings, and quality control techniques for critical metal structures. The team also contributes to the maintenance and preservation of key infrastructures like the Pamban Bridge. Their work ensures enhanced durability, safety, and longevity of materials in demanding environments.

RESEARCH FIELDS

- Development of corrosion protective coatings for reinforcement bars
- Development of inhibitive systems for protection of rebars
- Development of techniques for the impressed current system
- Corrosion problems in oil and petroleum industries
- Corrosion problems in thermal power plants
- Development of various alloys for sacrificial protection
- Monitoring the safety and corrosion status of bridges (Pamban) and various structures
- Investigation of surface treatments for reinforcing steel and concrete durability
- Conversion of major industrial by products into raw materials for producing construction materials
- Inspection methods to detect pipeline defects and coating failures under cathodic protection



RESEARCH INFRASTRUCTURE

- FE Fluorescent Microscope
- Instantaneous Corrosion Rate Meter
- Soil Resistivity Meter for assessing corrosivity
- Pearson Survey
- Paint formulation facilities like homogenizers, attritors, ballmill, sonicators
- Electrophoresis Technique
- Salt Spray Chamber
- Slow Scan Stress Corrosion Cracking Machine
- Electrochemical Impedance Spectroscopy
- Ultrasonic Pulse Velocity Meter
- Compression Testing Machine

CURRICULUM

Our students understand fundamental concepts like electrochemical reactions, corrosion mechanisms, and mitigation techniques. Students gain expertise in surface characterization, protective coatings, and cathodic protection. Advanced lab work involves stress corrosion cracking analysis and corrosion monitoring using state-of-the-art equipment. Additionally, the student gets access to specialized infrastructure such as electrochemical testing setups, coating application labs, and high-end microscopy tools, allowing them to develop practical skills in corrosion assessment and material protection.



ELECTROCHEMICAL POWER SOURCES

The Electrochemical Power Sources Division distinguishes itself through excellence in basic and applied research on electrochemical energy storage devices (batteries) directed towards high industry relevance, contemporary and next generation energy storage systems for more than five decades. This division implements a gamut of projects and collaborates with companies both nationally and internationally and performs specifically assigned tasks in the applied field.

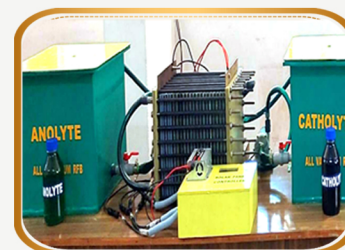
RESEARCH INFRASTRUCTURE

- Charge-Discharge Cycle Life Tester At Different Current Rates
- Electrochemical Work Station
- Hot Press For Polymeric Membrane
- Polymer Kneading Machine
- Electrospinning
- High Energy Ball Milling
- Acceleration Rate Calorimetry
- Vibration Tester
- Humidity Chamber
- Glove Boxes
- Redox Flow-Battery Tester
- Tubular And Muffle Furnaces
- Thermal Evaporator
- Hot-Air And Vacuum Oven
- Light Source



RESEARCH FIELDS

- Advanced Lead Acid Battery
- Lithium-ion Battery
- Flow & Metal Air Batteries
- Sodium-ion Battery
- Lithium-Sulfur Battery
- Supercapacitors
- Fuel Cells.



CURRICULUM

Our students gain knowledge on the principle and applications of batteries and fuel cells and their design through the state-of-the-art laboratory practices. They also learn about the construction, performance, and application of primary and secondary batteries, fuel cells, and supercapacitors relating to the recent technological advancements in development, testing of capacity, charge retention, vibration, life, efficiency, high-rate discharge, testing of separators, stack engineering, batteries for electric vehicle applications.

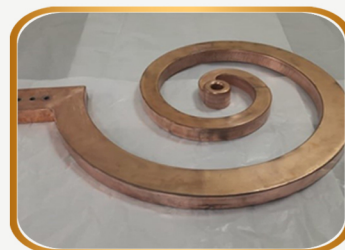


ELECTROPLATING AND ELECTROMETALLURGY

The Electroplating and Electrometallurgy Division plays a key role in advancing metal manufacturing and surface engineering through fundamental and applied R&D. It focuses on various vacuum and thermal coating methods, including protective, barrier, and decorative coatings. The division develops innovative surface technologies with strong industrial relevance. Its activities bridge core research with real-world engineering applications through collaborations with various industries.

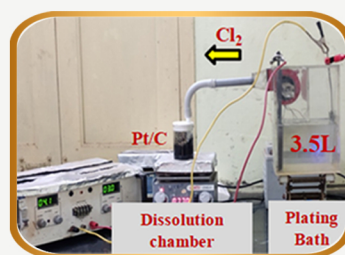
RESEARCH FIELDS

- Electroplating
- Electropolishing
- Electroforming
- Anodizing
- Brush Plating of Metals and Alloys
- Molten Salt Electrowinning
- Electro-Pyrometallurgy from Primary and Secondary
- Extraction Of Metals by Electro Hydrometallurgy
- Electro Recovery of Metals
- Spray Coatings
- Thermal Barrier Coatings
- Spin Coating
- Sol-Gel Coatings
- Vacuum And Thermal Barrier Coating
- Pulse And Pulse Reverse Plating of Metals and Alloys
- Electroless Plating



RESEARCH INFRASTRUCTURE

- Electroplating for various metals, alloys, composites and characterization facilities
- High temperature molten salt reactor
- Physical Vapour Deposition (PVD)
- Chemical Vapour Deposition (CVD)
- Pulsed Laser Deposition (PLD)
- Electron Beam Evaporation (EBE)
- DC/RF Magnetron Sputtering
- Ionic Assisted Confocal DC Magnetron Sputtering
- Advanced electroforming facility to fabricate space components
- Electroless nickel plating facility



CURRICULUM

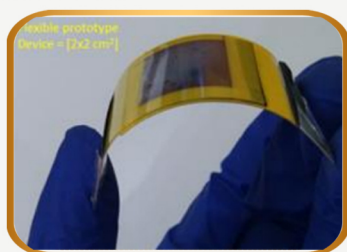
We train students to understand the concepts through hands-on electroplating of metals and alloys from aqueous baths. The curriculum covers fundamental principles, bath preparation, substrate pre-treatment, electroplating, and characterization of deposits. We also provide basic knowledge of hydrometallurgy and electro-metallurgy techniques used in mineral processing, as well as the anodizing of aluminum alloys and coating of steel samples.





◆ ELECTRODICS & ELECTRO-CATALYSIS

The Electrodics and Electrocatalysis (EEC) Division, contributes significantly to both basic and applied research. Electrodics, electrocatalysis, electroanalysis, novel electrode/electrolyte materials, sensors and devices are the thrust areas of research in this division. The research is mainly focused on studying the mechanisms and kinetics of the electrode process for developing electrochemical sensors, electrochromic devices and electrocatalysts along with modifying the electrode surfaces with nanostructures, self-assembled monolayers, polymeric materials, and biological macromolecules to fabricate sensors and devices to be used for various applications. The R&D includes expertise on fabricating miniaturized electrodes and multiplexed platforms such as ion-selective electrodes (ISE), microelectrodes for intracellular electrochemistry and liquid-liquid interfaces, flexible printed electrodes, multi-analyte electrode arrays, chemiresistors and electrochemical transistors.



RESEARCH FIELDS

- Hydrogen Evolution Reactions (HER)
- Oxygen Evolution Reactions (OER)
- Oxygen Reduction Reactions (ORR)
- Nitrogen Reduction Reactions (NRR)
- Carbon di-oxide Reduction Reactions (CRR)
- Biomass Valorisation
- Biosensors and bio-imaging
- Renewable Energy Conversion and Storage

RESEARCH INFRASTRUCTURE

- UV-Vis spectrophotometer
- Multiplate reader (Absorbance, Fluorescence)
- Cyclic voltammetry
- AutoLab
- Parstat
- EG&G instruments
- Particle size analyser
- Lyophilizer
- Electrospinning Unit
- Contact Angle Measuring system
- Ellipsometer
- Scanning Electrochemical Microscopy

CURRICULUM

Fundamental knowledge is imparted to the students to understand, analyze and solve problems related to electrochemical processes. Students will acquire knowledge on the electrical double layer, electrocatalysis and different types of electrochemical techniques.

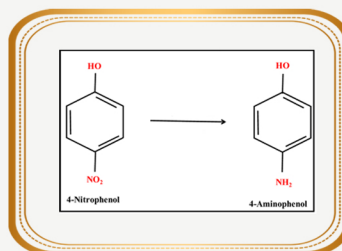


ELECTRO-ORGANIC AND MATERIALS ELECTROCHEMISTRY

The Electro-organic and Materials Electrochemistry division (EMED) focuses on the Electrochemical synthesis which offers an environmentally friendly technology with unique selectivity towards oxidation, reduction and functionalization. CECRI has developed many electro-organic processes over the years and technologies are transferred to the industries. Efforts to update a few commercially viable processes of current interest are in progress. The Materials Electrochemistry research activities focus on the development of multifunctional materials for energy, environmental and healthcare applications.

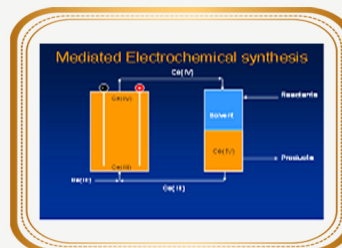
RESEARCH FIELDS

- Electrochemical fluorination and selective fluorination.
- Electrosynthesis of fine chemicals
- Electrochemical vat dyeing
- Smart fabrics
- Synthesis of Ionic liquids for multifarious applications
- Fundamental Electrochemistry
- Cathodes for dye-sensitized solar cells (DSSCs)
- Electroceramics (dielectric, piezoelectric and magnetic materials) and supercapacitors
- Synthesis of various nanostructured materials with tailor-made properties by adapting different methods



RESEARCH INFRASTRUCTURE

- Electrochemical work station
- High performance liquid chromatography (HPLC)
- Gel permeation chromatography (GPC)
- Electrochemical reactors/pressure reactors
- Physical Property Measurement System (PPMS)
- Solar Simulator and Photoreactors
- Large area DSSC fabrication unit
- Gas chromatography
- BET surface area and pore size analyser
- Microwave reactor
- Electrophoretic deposition unit



CURRICULUM

Students are taught basic electrochemistry, principles of electrochemical devices, electro active materials used in devices, and case studies of batteries and sensors after which they get acquainted with the integration of electrochemical principles and material science for innovation in the area of modern electrochemical devices.





ELECTROCHEMICAL PROCESS ENGINEERING

The research focuses mainly on the electrosynthesis of inorganic chemicals like chlorate and perchlorates of alkali and alkaline earth metals and ammonium perchlorate. It also focuses on development of electrode materials for electro-synthesis of inorganic chemicals. It has developed customized processes around electrochemical technologies and to support electrochemical reactors, different physical and chemical processes are explored as pre- and post-treatment processes.



RESEARCH FIELDS

- Polymer Electrolyte Membrane based Water Electrolyser (PEMWE)
- Electrochemical Drinking Water Treatment
- Electrochemical method for production of oxidants
- Electrochemical methods for recovery of metals
- 3D metal printing technology
- 3D polymer printing technology



RESEARCH INFRASTRUCTURE

- Multi-channel electrochemical analyser
- Rotating ring disk electrode
- Electrochemical quartz crystal micro balance
- Solar stimulator
- 3D-Optical microscope
- Scanning electrochemical microscope
- Solid surface Zeta potential analyser
- Gas chromatography
- Incident photon-to-current efficiency (IPCE) measurement unit
- Tensile testing machine
- TOC analyser
- Confocal laser scanning microscope
- UV-Vis spectrophotometer
- Double beam UV-Vis spectrophotometer
- Electrospinning machine
- 3D-Polymer printer
- Planetary ball mill
- Hot pressing unit
- Rotary evaporator
- High temperature furnace
- Vacuum oven



CURRICULUM

Students are made familiar with the aspects of current-voltage relationships and estimation of mass transfer coefficient, PFR and CSTR system models. Students are also trained to analyse electrochemical design models, the thermal behaviour of electrochemical reactors and to determine the kinetic constants and conversion of a given electrochemical reaction in a batch reactor, tubular reactor, and mixed flow reactor and compare with the theoretically predicted conversions. Students will acquire knowledge of basic electrochemical concepts and principles involved in the electrochemical process and its applications.



RESEARCH & DEVELOPMENT

INDICATOR	2024-25	2023-24	2022-23	2021-22
Total amount of Funding – Projects (Rs. in Lakhs)	1206.74	893.454	734.41	1154.21
No. of Publications	244	234	214	280
No. of Patents Filed / Granted	04	14	15	16
No. of Technologies Developed	03	08	17	07

PATENTS AND PUBLICATIONS

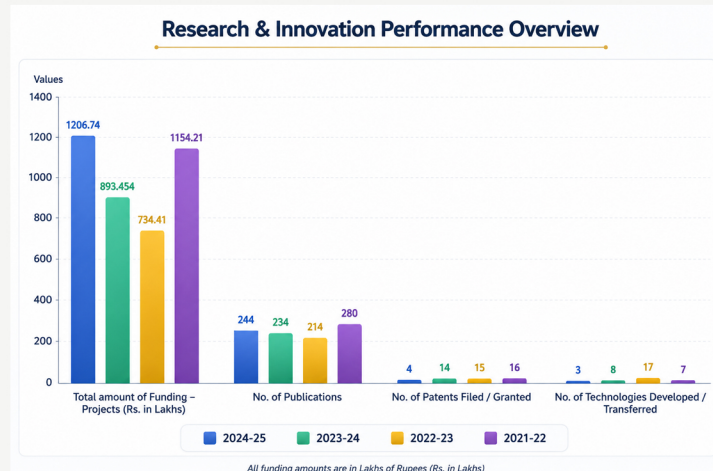
Patents and Research Publications form the crux of any R&D institute and these numbers of CSIR-CECRI speak volumes about the quality of academics and research here. This transferable culture of research is inculcated in undergraduate students by introducing credits for their projects, where the students execute a project of their choice in small groups irrespective of their selected division and some students even publish their thesis. This vibrant research culture validates more than 750 patents, 250 processes, 800 sponsored and grant-in-aid projects (in the last five years), 550 licenses and 6,500 research papers in peer-reviewed national and international journals that the institute boasts of are ample testimony to its leadership in nation building.

RESEARCH ENDEAVOURS

Every research endeavour is a voyage to discover truth and CSIR-CECRI is committed to furthering this voyage. It constantly aims at improving learning through practice and research and is on its way in creating the infrastructure, ambience and culture necessary for the pursuit of creative ideas.

INNOVATIVE INITIATIVES

The conventional engineering skills are no more sufficient to address the problems of today's fast-changing society. At CSIR-CECRI, students are provided with a plethora of choices in electrochemistry from which they diligently choose with the help of faculties through B.Tech. undergraduate program offering courses in smaller credits - called electives designed with great care and concern, to induce the enthusiasm of the students and to keep them in pace with the current scientific, technological and industrial scenarios. These courses are distributed from the first to the eighth semester.





◆ CENTRAL INSTRUMENTATION FACILITY

CECRI has a central instrumentation facility, housing a long list of sophisticated scientific instruments, which includes SEM, TEM, HR-TEM, XRD, NMR, EPR, ICPMS, PPMS, UV-Vis & FT-IR spectrophotometers, AFM, STM, XPS, 3D Metal Printing, Cluster computing facility, etc., for characterization. These facilities immensely help students, besides their regular curriculum, to get exposed and familiarized for material characterization techniques and data analysis.



◆ KNOWLEDGE RESOURCE CENTRE

The Knowledge Resource Centre (KRC) of CSIR-CECRI is a treasure trove of knowledge in the area of electrochemical science & technology and its allied fields. It plays a vital role in supporting and furthering the academic and research mission of CECRI facilitating the creation and dissemination of knowledge. It has about 55,000 volumes in the form of books and back volumes of journals in various disciplines to cater the needs of scientists, research scholars, students, and employees of the institute. It also extends its services to the students and researchers of other academic institutions and industries. It has a huge collection of patents, standards and doctoral theses. The e-Library, a one-stop virtual knowledge platform gives students access to international and national journals published by Nature Publishing Group, AAAS, ACS, ECS, John Wiley, OUP, RSC, Elsevier, Springer, Tailor & Francis group, etc.



INTERNSHIPS

On completion of their second/third year of the course, students attend summer/winter internships in prestigious institutions in India and abroad to gain hands-on experience in the professional world. Apart from this, students also carry out research projects from the second year onward under the intellectual and expert guidance of scientists. Once completed, they publish their works in high-impact international journals.

Areas in which our students carry out their research work are as follows:

- Corrosion and Cathodic Protection
- Solar Cells and Fuel Cells Nanomaterials
- Electrometallurgy
- Electroplating and Metal Finishing
- Water Electrolysis and Purification
- Paints and Smart Coatings
- Waste Remediation
- Batteries and Supercapacitors
- Organic Synthesis
- Biosensors
- Catalysis

Our students actively do research work in labs of CECRI and other institutions and publish their works in prestigious national as well as international journals.





◆ OUR STUDENTS' PROJECTS

- 1) Development of Positive Layered Electrodes for Aqueous Zinc-ion Battery
- 2) Composite Materials Comprising Rare Earth Oxides were Synthesized via Hydrothermal Route
- 3) Modelling Phase-Change Dynamics in NVPF Cathodes
- 4) Performance Enhancement of Zinc–Iron Redox Flow Batteries Using ZIF-67
- 5) Synthesis of Bimetallic transition metal-based electrocatalysts for alkaline electrolyzer applications
- 6) Electrosynthesis of Ammonium Persulphate
- 7) Electrochemical sensing of Hydrogen peroxide by using MnO₂
- 8) Development of polyanionic cathode materials for Na-ion batteries
- 9) MATLAB-Based PI Controller for KOH Concentration Monitoring for Alkaline Water Electrolysers
- 10) Rational design of a Ce-Cu-based bifunctional catalyst for efficient and durable alkaline water electrolysis
- 11) Development of an efficient catalyst for the electrochemical sensing of Dimethyl Phthalate
- 12) Optimization of Zinc–Sulphur Battery Performance through Electrolyte Additive Engineering
- 13) Electrochemical dye degradation using a bimetallic catalyst
- 14) Prediction and estimation of the SOH of the battery using machine learning techniques
- 15) Electrochemical sensing of Biomolecules (Vitamin B12, Homocystein) and LDH Catalyst Preparation for Oxygen Evolution Reaction
- 16) Fabrication of an electrochemical biosensor using host-guest interaction
- 17) Design and optimization of electrocatalytic materials for highly efficient water splitting (HER and OER)

◆ PUBLICATIONS

Students play an active role in scientific research by assisting scientists with experimental work and quantitative data analysis. Their contributions often result in publications in prestigious journals, providing them with valuable academic exposure. Our students are consistently involved in cutting-edge research in key areas of electrochemistry, including electrocatalysis, electrochemical sensors, metal-air batteries, CO₂ reduction, electroplating, density functional theory (DFT), and membranes for electrolysis. Their research is regularly published in reputed journals such as Small, Advanced Photonics Research, Energy & Fuels, and Electrocatalysis. Several additional manuscripts are currently under review.



CONFERENCES

Conferences, workshops and symposiums play a vital role in student's professional development by providing exposure to the latest advancements, research methodologies, and real-world applications in their field. Our students gained these invaluable experiences by actively participating in reputed events organized by BARC, SAEST, IECS and ICMAS where their contributions were recognized and appreciated.



PLACEMENT CELL

Over the years, the placement cell acting as an effective interface between the institute and hiring companies has maintained a symbiotic, vibrant and purposeful relationship across the globe. As a result, it has built up an impressive placement record both in terms of the percentage of students placed as well as the number of companies visiting the campus. The recruiters are provided with all required facilities for the placement process such as:

- The computer and internet facilities are available for online test
- Fully furnished, air-conditioned rooms for group discussion and personal interviews
- Telephonic and video conferencing facilities are available if necessary.

HOSPITALITY

CECRI, which has an aesthetically appealing campus spread over 300 acres of land with a large variety of flora and fauna, is well known for its warm hospitality over decades. For the recruiters, great care will be taken in providing transportation facilities. Hospitality will be provided in the institute's guest house with all amenities including internet facility.



◆ CECRI ALUMNI

CECRI Alumni represent a beacon of inspiration for current students, embodying the possibilities that stem from a strong foundation in electrochemical science and technology. Alumni serve as role models, mentors, guiding students with valuable insights, real-world experiences, and professional advice. Our alumni community fosters lifelong connections, professional networking, and mentorship opportunities.

RECENT ACHIEVEMENTS OF ALUMNI

Chevron Corporation appointed Balaji Krishnamurthy as Vice President of its Technical Center in January 2024. Based in Houston, he now oversees global technical services, IT, engineering standards, and innovation. Previously, he held roles including VP of Strategy & Sustainability and President of Chevron Canada.



Dr. Dev Chidambaram from the University of Nevada, Reno, was honored with the ECS Corrosion Division Rusty Award for Mid-Career Excellence. The award recognizes his significant achievements and impactful contributions to the advancement of corrosion science and technology.

ALUMNI ACTIVITIES



CAA SCHOLARSHIPS

Through the CECRI Alumni Association, alumni of our college support current students by providing the CAA Scholarship Award. This award benefits deserving students pursuing their studies at CECRI. The initiative reflects the alumni's commitment to nurturing future talent and strengthening the institution's legacy.

CAREER WORKSHOP

The Career Catalyst Program by our college alumni offers students training in interview skills and personality development. This initiative builds confidence and enhances soft skills essential for recruitment success. It greatly supports students in shaping their careers and future opportunities.



BENEFACTION

The hostel library was enriched through a generous benefaction of books by the CAA alumni, offering a wide range of collections from academic references to diverse genres, including leisure reading that imparts valuable knowledge and greatly helps students in their learning and overall development.



COMPANIES POWERED BY OUR ALUMNI

Amazon, Chennai
Avesta Battery & Energy Engineering, Belgium
Apple, USA
Accenture, Bangalore
Advanced Micro Devices, Inc. USA
Associated Electrochemicals Pvt Ltd, Haryana
AVEVA Group Limited, USA

BGR Energy Systems Limited, Chennai
Bloom Energy, USA
Birla Carbon, USA

CII Guardian International Limited, Kerala
Cholamandalam Investment and Finance Company Limited, Chennai
Centrico India Private Limited, Chennai

Duracell Inc., Bangalore
DXL Electronic Materials India Pvt Ltd, Chennai

Enovix Corporation, USA
Eternity Technologies, UAE

Genie Global Group, USA
General Motors Corporation, USA
Gurit wind private limited, Chennai

iLink Digital, Bangalore
JC Valvulus (ME) FZC, UAE
KNPC, Kuwait

LG Energy solutions, South Korea
Lam Research, USA

Micron Technology, Singapore
NOVONIX, Canada

Ohmium Energy, USA
Ohmium Energy, Bangalore

Pure Lithium Corporation, USA

Reliance Industries Limited, Mumbai
Raiipa Technologies, Chennai
Randstad, Belgium

Stellantis India, Chennai
Saint Gobain Research India Private Limited, Chennai
Sun Hydrogen, Inc., USA

Tata Consultancy Services, USA
The Catalyst Group, Chennai

Werfen, Spain



◆ RECRUITMENT PROCESS

We send invitations to companies or organizations along with placement brochure through e-mail.



Interested companies will revert with the job description, compensation details, selection procedure and the mode of interview.

Students are notified about the companies. The list of the interested candidates will be collected, the same will be forwarded to the concerned companies. The candidates will be informed of the date and selection process by the companies



The placement cell will make all arrangements for the visiting companies to conduct written tests, group discussions and interviews. Audiovisual aids like laptops, internet facilities etc. For online tests, facilities will be made available upon prior intimation.

After completion of the placement process, the company shall give the list of selected candidates to the placement cell and the offer letters will be sent to the candidates through courier / email.





Student's Profile 2026-27



“The future belongs to those who believe in
the beauty of their dreams. „



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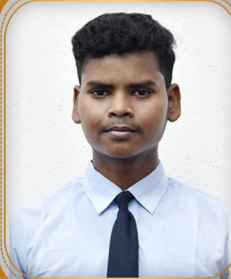
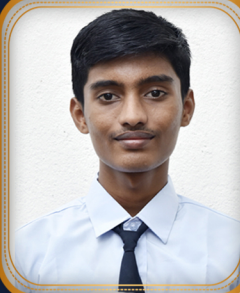


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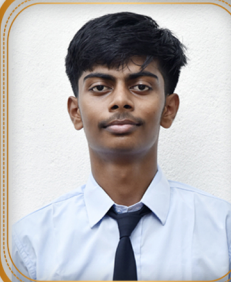
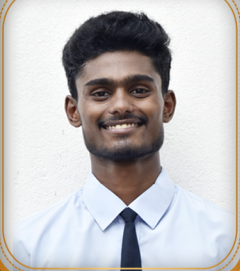
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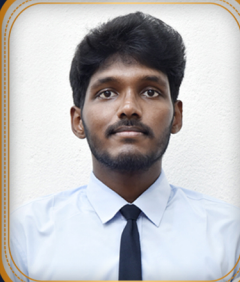


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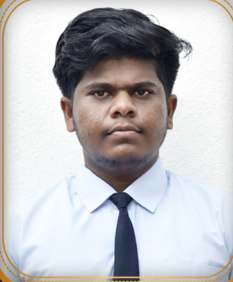
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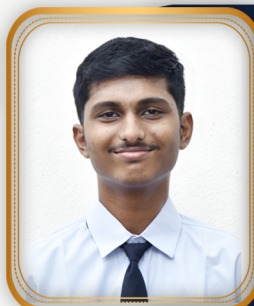


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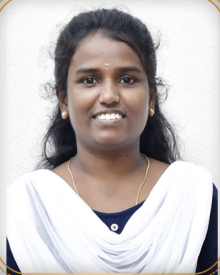


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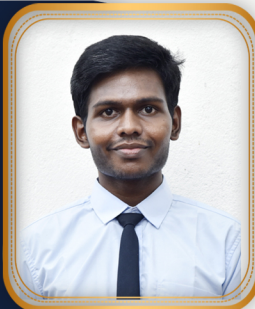


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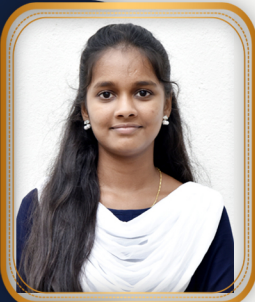
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MEET OUR TEAM

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OUR ESTEEMED RECRUITERS



A

Agratas – A Tata Enterprise, Bangalore
Amara Raja Batteries, Tirupati
Ashley Alteams India Ltd., Kanchipuram
Asian Paints, India
Anabond Sainergy Fuel Cell India(P) Ltd., Chennai
Atotech India Pvt. Ltd., Bangalore
Auto Eastman, Haryana
Associated Electrochemical Pvt., Haryana

B

BHEL, Pune
Batx Energies Pvt Ltd., Gurgaon, Haryana
Berger Paints India Ltd., Kolkata
BGR Tech Limited, Ambattur, Chennai
Bimetal Bearing Ltd., Hosur
Bloom Energy, Bangalore

C

Chemfab Alkalies Ltd., Pondicherry
Continental Device India Ltd., New Delhi
CorrTech International Pvt. Ltd., Ahmedabad
Coroseal chemicals, Chennai
Corrosion Technology Services, Dubai
Crompton Greaves Ltd., Mumbai

D

Dalmia Cement (Bharat) Ltd., Tamil Nadu
DuPont India Ltd., Hyderabad

E

Eveready Industries Ltd., Kolkata
Enarka, Bangalore
Enviro Metals Recyclers Private Limited
Enercon India Ltd., Daman
Exide Batteries, Hosur
Eternity Technologies, UAE

G

Gabriel India Ltd., Pune
GFL, Gujarat
Godrej Batteries, Mumbai
Grauer and Well India Ltd., Mumbai

H

HEMA Pvt. Ltd., Bangalore
High Energy Batteries, Trichy
HBL Nife Power Systems, Hyderabad
Hindustan UniLever Ltd., Bangalore
Hyderabad Electroplating Works, Hyderabad

I

IEC Fabchem, Chennai
Infosys Tech, Bangalore

K

Kinetic Engineering Ltd., Pune
Kirloskar Brother Ltd., Pune
Kansai Nerolac Paints Ltd., Hosur

L

Lakshmi Machine Works, Coimbatore
Livguard Batteries, Himachal Pradesh
LucasTVS, Chennai
L&T valves limited
Luminous Power Technology Ltd., Himachal Pradesh

M

Max India, Bangalore
MICROPACK India Ltd., Bangalore
Madras Electroplaters, Chennai
Minda Batteries, New Delhi
Multi Nano Sense Technologies Private Limited

N

NED Energy Ltd., Hyderabad
NOCIL India Ltd., Bangalore & Navi Mumbai

P

Prestolite Tudor India Pvt. Ltd.,

R

Raychem RPG Ltd., Mumbai

S

Salcomp, Chennai
Shell, Bangalore
Su-Kam Batteries, Noida
Shan Poornam Metals, Malaysia
Shree ram fibres india ltd., Chennai
Sundaram Fasteners, Chennai

T

TAFE, Madurai
Taqaal Energy Pvt Ltd., Bangalore
Tatva Chintan Pharma Chem, Baroda
TATA Electronics, Hosur
Technip Energies, India
Thermax, Pune
TechnoCorr, Kerala
TVS Motors, Hosur

U

Umicore, Mumbai

V

Veolia Water Technologies & Solutions, Bangalore
Virya Batteries, Mumbai

W

Wipro Electroplaters, Bangalore





HOW TO REACH US

BY AIR

From Chennai, one can fly either to Thiruchirappalli or Madurai, to reach Karaikudi. Both the airports are equidistant (~100 km) from Karaikudi and both these airports are also connected by direct flights from Mumbai and New Delhi. The Airports also receives international flights from Singapore, Dubai, Sharjah, Kuwait, Colombo and Kuala Lumpur.

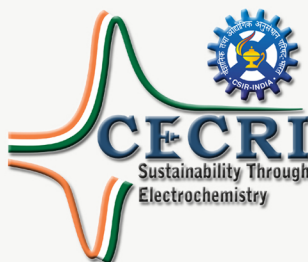
BY ROAD

Karaikudi is also well-connected to Chennai and Bangalore through National Highway via Thiruchirappalli / Madurai. From Dr. M.G.R. Bus stand (Maatuthaavani) in Madurai, one can reach Karaikudi New Bus stand by bus round the clock. Similarly, frequent bus services are available from Thiruchirappalli as well. CSIR-CECRI is just 3 km away from Karaikudi New Bus stand.

BY RAIL

Karaikudi Junction is connected via the Chennai-Rameswaram railway line as well as by Mayiladuthurai-Karaikudi railway line. There are many direct trains from Chennai (overnight journey) to Karaikudi via Thiruchirappalli.





<https://cecri.res.in/Academics/GraduateProgramme/CampusPlacementCell.aspx>



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