

Newsletter of CSIR-National Institute for
Interdisciplinary Science and Technology,
Thiruvananthapuram



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Interdisciplinary face of CSIR

NIIST INSIGHTS

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April-June 2026



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From the Director's Desk

**Dr. C. Anandharamakrishnan**

Director, CSIR-NIIST

I am pleased to pen this message in the capacity of the Director of CSIR-NIIST, a premier interdisciplinary research laboratory under the aegis of the Council of Scientific & Industrial Research (CSIR), Government of India. Renowned for its scientific rigor in research driven by underlying societal cause, CSIR-NIIST demonstrates excellence in the areas of photochemistry, chemical-bioscience confluence, advanced materials, bioprocess and product development, agro-processing, and value-addition to the region-specific natural resources. I thank the vibrant NIIST community comprising scientists, students, and staff for their persistent efforts in upholding the eminence of this Institution, time and again.

I am also delighted to introduce "NIIST INSIGHTS", the quarterly e-Newsletter of CSIR-NIIST, as a platform to showcase the scientific achievements, institutional activities, technology developments, collaborations, outreach programmes, and success stories of our researchers, students, and staff. This newsletter will serve as a vibrant window into the interdisciplinary research ecosystem of CSIR-NIIST and will help communicate our contributions to stakeholders in academia, industry, government, and society. I hope NIIST INSIGHTS will not only document our progress but also inspire new collaborations, encourage young researchers, and strengthen the national and global visibility of our institute.

As we head to celebrate this milestone, we envision to emphasize the ethos of scientific & social responsibility, sustainability and self-reliance (Atmanirbhar). The NIIST fraternity would foster an interdisciplinary approach integrating various information, concepts, tools, and techniques from different disciplines to resolve real-world challenges. I envisage CSIR-NIIST fostering impactful research in the frontier areas of national relevance, harness the best from industry partnerships and nurture an entrepreneurial culture amongst the younger generation.

Going forward, NIIST would emerge as India's pioneering R&D nucleus in the cutting-edge areas of advanced materials, drug development from natural products, post-harvest technology, bioprocessing, and environmental engineering. I foresee the enhanced national and global visibility of NIIST for our pioneering innovations and significant contributions toward achieving the sustainable development goals. I realize that a parallel research focus is mandatory on the indigenous development of materials and machinery. With a strengthened and rejuvenated research focus, CSIR-NIIST will endeavor to create collaborations with the Central and State Governments and ensure that the timely 'Lab-to-land' transformation of our technologies would touch the lives of people and aid in nation building. If you are an aspirant intending to pursue unique and innovative research or seeking science-based solutions to realize your ideas, our website will be a one-stop platform.

Once again, I welcome you all to be a part of our mission, which is, 'Make in India! Make for the World!'

National Technology Day 2026: Techno-Fest cum Customer Meet

CSIR-NIIST marked National Technology Day 2026 with a special event titled “Techno-Fest cum Customer Meet”, positioning the observance as a platform for technology demonstration, stakeholder engagement and knowledge exchange. The programme brought together scientists, entrepreneurs, industrial partners, startups and technology users to strengthen the laboratory-to-market interface.

The event underscored the institute’s commitment to translating interdisciplinary research into deployable technologies. By creating a common forum for researchers and customers, CSIR-NIIST highlighted its role as a national laboratory working at the intersection of science, industry and society.

Technology Translation



Technology Demonstrations and Customer Felicitation

As part of the National Technology Day 2026 celebrations, CSIR-NIIST showcased its technologies and acknowledged valued customers and industry partners. The felicitation component reflected the institute’s continuing engagement with stakeholders who help carry indigenous technologies from research laboratories to field use and market application.

The demonstrations provided an opportunity to communicate the practical value of CSIR-NIIST technologies in areas such as food processing, materials, environmental solutions, sustainable products and process innovation. The customer meet format also enabled direct feedback from users, which is essential for scale-up, quality improvement and wider adoption.

Industry Interface



Patent Workshop for Researchers and Startups

A Patent Workshop for Researchers and Startups was organised at CSIR-NIIST on May 13, 2026. The inaugural session, shared through the institute’s social-media channels, emphasised the importance of intellectual property awareness for researchers, innovators and early-stage entrepreneurs.

The workshop is significant because patent literacy is a critical bridge between scientific discovery and technology translation. For research institutions, systematic understanding of novelty, inventiveness, freedom-to-operate, filing strategy and technology licensing strengthens the innovation ecosystem.

The activity aligns with CSIR-NIIST’s broader mandate of supporting high-quality research, entrepreneurship and industry-facing innovation.

Innovation and IPR



Leadership Conclave on Sustainable Liquid and Solid Waste Management

CSIR-NIIST hosted the inaugural session of a Leadership Conclave on Sustainable Liquid and Solid Waste Management. The programme was designed to explore innovative, science-driven solutions for waste management and circular economy practices. The Hon'ble Mayor of Thiruvananthapuram Corporation, Adv. V. V. Rajesh, attended as Chief Guest, and Deputy Mayor Smt. Ashanath G.S. attended as Guest of Honour.

The conclave created a bridge between municipal leadership and scientific expertise. Through technical sessions and institutional interaction, the programme highlighted the role of applied research in addressing urban sustainability challenges, including waste minimisation, treatment, resource recovery and technology-enabled governance.

Science for Society



Municipal Councillors Explore Science-Driven Waste Management Solutions

Councillors of the Thiruvananthapuram Corporation visited CSIR-NIIST for technical sessions and live demonstrations related to sustainable liquid and solid waste management. The engagement provided civic representatives with exposure to scientific approaches for urban environmental management.

The visit enabled dialogue between technology developers and decision-makers responsible for city-level implementation. Such interactions are important for moving laboratory innovations into public systems, where scalability, maintenance, cost-effectiveness and community acceptance determine long-term success.

Stakeholder Visit



CSIR-NIIST - BAIF MoU on Agrivoltaics and Climate-Resilient Rural Development

CSIR-NIIST and BAIF Development Research Foundation signed a Memorandum of Understanding to collaborate on agrivoltaics, sustainable agriculture, renewable energy and climate-resilient rural development. The partnership brings together scientific innovation from CSIR-NIIST and field-level development expertise from BAIF.

The collaboration is expected to support research, technology validation, capacity building and rural deployment models. Agrivoltaics - the combined use of land for solar energy generation and agricultural production - is particularly relevant for India because it can improve land-use efficiency while supporting farm productivity and renewable-energy goals.

The MoU represents a strong example of mission-oriented partnership for sustainability, climate action and rural prosperity.

Strategic Partnership



Top Agri-Food Pioneer Recognition for Director, CSIR-NIIST

CSIR-NIIST shared a congratulatory update on the recognition of Dr. C. Anandharamakrishnan, Director, CSIR-NIIST, among the 2026 Top Agri-Food Pioneers by the World Food Prize Foundation. The recognition highlights the growing international visibility of Indian contributions in food innovation, food engineering and nutrition-oriented technology development.

For CSIR-NIIST, the acknowledgement reflects institutional strength in agri-food research, sustainable processing and technology translation. Such recognitions also inspire young researchers by demonstrating how science-led innovation can address nutrition, health, sustainability and food-system challenges.

Honours and Recognition



CEAR Formulation Development Facility: From Idea to Market-Ready Wellness Products

CSIR-NIIST highlighted the Formulation Development Facility at CEAR as an end-to-end support platform for herbal, nutraceutical and wellness products. The facility offers scientific support for research and development, prototype development, testing, optimisation and technology translation.

The update is important for entrepreneurs, startups, MSMEs and industry partners seeking credible product development pathways. By combining traditional knowledge with scientific validation, quality assessment and formulation expertise, the facility can help transform early product ideas into market-ready technologies.

Technology Facility



CSIR Integrated Skill Initiative



Skill Development Program: Mechanical Testing and Thermal Characterization

Under the CSIR Integrated Skill Initiative, CSIR-NIIST announced a Skill Development Program on "Mechanical Testing and Thermal Characterization" during 22-24 June 2026. The programme is aimed at strengthening practical understanding of mechanical testing and thermal analysis methods relevant to materials research and industrial quality evaluation.

The course theme is highly relevant for students, researchers, technical staff and industry professionals working in materials, polymers, ceramics, composites, metals and functional materials. Expected learning areas include test principles, sample preparation, data interpretation, instrument handling, safety and application-oriented analysis.

Tech Connect: Lab to Market

CSIR-NIIST successfully hosted "Tech Connect: Lab to Market" at Anusandhan Bhawan, CSIR Headquarters, New Delhi, bringing scientific innovation closer to industry and society.

The event was graced by Dr. N. Kalaiselvi, DG, CSIR & Hon'ble Secretary, DSIR. Guests of Honour included Shri Vikas Gupta, Global Head – R&D, Tata Consumer Products, and Commodore Amit Rastogi (Retd.), Chairman & MD, NRDC. Welcome address by Dr. C. Anandharamakrishnan, Director, CSIR-NIIST.

Lab to Market



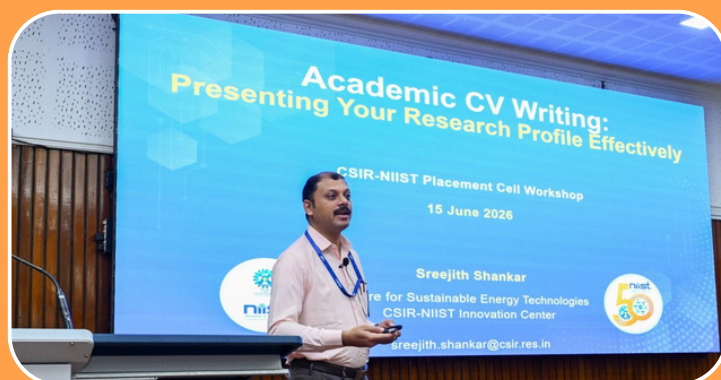
Placement Cell Workshop on Academic CV Writing

The Placement Cell at CSIR-NIIST organised a workshop on "Academic CV Writing" for research scholars. The session was led by Dr. Sreejith Shankar and focused on practical guidance for preparing effective academic CVs.

The workshop covered key elements such as research achievements, publications, skills, training, professional accomplishments and presentation of academic credentials. For research scholars, a well-structured CV is essential for fellowships, postdoctoral applications, faculty positions, research roles and international opportunities.

The activity reflects CSIR-NIIST's commitment to the professional development of its young researchers beyond laboratory training.

Research Scholar Development



Rajbhasha and Administration



Official Language Rules Workshop

CSIR-NIIST conducted a workshop-cum-training programme on official language rules for staff members. The resource person was Mrs. S. Sreeletha, Assistant Director (Official Language), Hindi Teaching Scheme, Thiruvananthapuram.

The programme strengthened awareness of official language provisions, administrative communication practices and implementation requirements. Such workshops support institutional compliance and promote effective use of Rajbhasha in official work.

Thursday Lecture Series: Personality Traits and Leadership Attributes

An engaging session on “Personality Traits and Leadership Attributes: Personal Self vs Professional Self” was delivered by Mr. R. S. Praveen Raj, HR Coordinator, CSIR-NIIST, as part of the Thursday Lecture Series.

The lecture addressed the relationship between self-awareness, professional conduct, leadership behaviour and workplace effectiveness. Such sessions contribute to a positive institutional culture by encouraging reflection on communication, responsibility, adaptability and team-oriented leadership.

Lecture Series



Institutional Social Responsibility



World Blood Donor Day 2026

On the occasion of World Blood Donor Day 2026, CSIR-NIIST staff members took the Blood Donor's Oath, reaffirming their commitment to voluntary blood donation. The observance served as a reminder that scientific institutions also contribute to society through public health awareness and community responsibility.

Voluntary blood donation is a life-saving act that depends on sustained awareness, trust and institutional participation. By observing the day collectively, CSIR-NIIST reinforced values of service, compassion and social commitment among its staff members.

Celebrating World Environment Day 2026 @ CSIR-NIIST

CSIR-NIIST marked World Environment Day 2026 with an inspiring keynote lecture by Dr. V. Balakrishnan, Member Secretary, Kerala State Biodiversity Board, on the significance of biodiversity and climate resilience in building a sustainable future.



World Environment Day 2026

Rozgar Mela

A proud moment for CSIR-NIIST as our newly joined recruits participated in the Rozgar Mela and received their appointment letters from Shri Suresh Gopi, Hon'ble Minister of State for Petroleum and Natural Gas and Minister of State for Tourism. The event was held virtually in the august presence of the Hon'ble Prime Minister of India, Shri Narendra Modi, and Dr. Jitendra Singh, Hon'ble Minister of State for Science and Technology.



Rozgar Mela

Face to Face with S&T Leaders

An inspiring session at CSIR-NIIST as Prof. Dr. Thallada Bhaskar, Director, CSIR-AMPRI, Bhopal, interacted with staff and students during “Face to Face with S&T Leaders” and delivered a talk on sustainable value addition approaches for organic/inorganic residues.

Face to Face with S&T Leaders



Director with Mr. Sudhir Nema



Britannia Chief Development & Quality Officer visits NIIST

Mr. Sudhir Nema, Chief Development & Quality Officer, Britannia Industries Limited, visited CSIR-NIIST, Thiruvananthapuram, on 1st June 2026 to explore the institute's research ecosystem and discuss potential opportunities for scientific collaboration, technology development and industry-research partnerships.

During the recent visit of Mr. Sudhir Nema, Chief Development & Quality Officer, Britannia Industries Limited toured various research laboratories and facilities of CSIR-NIIST, gaining insights into the institute's research activities, technology development initiatives, and capabilities. The visit provided an excellent platform for discussions on translating scientific innovations into industry-ready solutions and strengthening partnerships between academia, research institutions, and industry for societal and economic impact.

Swachhata Pakhwada 2026

CSIR-National Institute for Interdisciplinary Science and Technology (CSIR-NIIST), Thiruvananthapuram, organized Swachhata Pakhwada – 2026 from 01 May to 15 May 2026 in alignment with the national mission of promoting cleanliness, environmental awareness, waste management, and public participation in sustainable practices.

The program was conducted with enthusiastic participation from scientists, technical staff, students, research scholars, administrative personnel, and outsourced staff of the institute. Various competitions, awareness programs, plantation drives, and cleanliness campaigns were organized during the fortnight to strengthen the spirit of cleanliness and environmental responsibility among all stakeholders.

The activities were coordinated under the guidance of the Director, CSIR-NIIST, with active involvement from different divisions and units of the institute.

Swachhata Pakhwada 2026



Swachhata Pakhwada 2026

The major objectives of organizing Swachhata Pakhwada – 2026 were to promote cleanliness and hygiene within the institute premises and surrounding areas, create awareness about sustainable waste management practices, encourage active public participation in environmental conservation, inculcate social responsibility among students and staff, support the national Swachh Bharat Mission through institutional initiatives, and encourage creative expression through competitions focused on cleanliness and sustainability. The Swachhata Pakhwada – 2026 celebrations concluded with a formal Valedictory Function conducted on 14 May 2026 at 03:30 PM in the CSTD Seminar Hall, CSIR-NIIST.

The programme commenced with a welcome address delivered by Dr. S. Ananthakumar, Chairman, Swachhata Pakhwada Committee 2026 and Head, MSTD, CSIR-NIIST. He welcomed the dignitaries, participants, staff members, students, and guests and highlighted the importance of collective participation in maintaining cleanliness and environmental sustainability.

This was followed by the presentation of the Swachhata Pakhwada report by Dr. Parijat Pallab Jana, Nodal Officer, Swachhata Pakhwada Committee 2026 and Scientist-D, CSIR-NIIST. The report summarized the various competitions, cleanliness drives, awareness programmes, outreach activities, and stakeholder engagement initiatives conducted during the fortnight celebrations.

The Presidential Address was delivered by Dr. C. Anandharamakrishnan, Director, CSIR-NIIST. In his address, he appreciated the active participation of the institute community and emphasized the need for sustained cleanliness practices, scientific waste management, and environmental responsibility beyond the campaign period.

The Valedictory Address was delivered by the Chief Guest, Dr. Binu Francis, IAS, Managing Director, Kerala Water Authority and Executive Director, Jananidhi, Government of Kerala. The Chief Guest commended CSIR-NIIST for organizing impactful activities under Swachhata Pakhwada and appreciated the institute's efforts in promoting public awareness, sanitation, and sustainable environmental technologies. He told that waste management could be effective only if it gets active participation from all the corners of society. "Waste is only waste at a particular form at a particular place and with particular person, but it could be a value-added product at some other place or form or person. Waste segregation is the first step to be done by the citizens", he added.



The Director administered the Swachhata Pakhwada pledge, which was solemnly taken by all staff and students of the institute. As part of the programme, prizes were distributed to the winners of various competitions conducted during the Swachhata Pakhwada celebrations. The programme concluded with a Vote of Thanks delivered by Mr. Srinivasa Rao Yella, Controller of Administration, CSIR-NIIST, who expressed gratitude to all organizers, participants, guests, and stakeholders for their valuable contributions to the successful conduct of the programme.

Skill Development Program Conducted

Sl.No.	Title	Coordinator	Participants	Date
1	Hands-on Training for the Extraction and Characterization of Plant Proteins	Dr. Vasanth Ragavan K.	5	02/03/26 to 06/03/26
2	Capacity Building Program on AI	Dr. K. V. Ramesh & Dr. Arun Kumar V.	5	05/03/26
3	Foundations of Deep Learning for Predictive Analytics	Dr. K. V. Ramesh & Dr. Arun Kumar V.	16	13/03/26 to 15/03/26
4	Hands-on Training on UV-VIS, IR, and Fluorescence Spectroscopic Techniques	Dr. Sreejith Shankar P.	11	23/03/26 to 28/03/26
5	Hands-on Training CEAR-1	Dr. K. V. Radhakrishnan	4	05/03/26
6	Hands-on Training on Analytic Techniques in Ayurveda Research	Dr. K. V. Radhakrishnan	17	20/04/26 to 15/05/26
7	Master the Science of Separation through Hands-on Chromatography Training	Dr. Ishita Neogi	7	26/05/26
8	Microscopic and Diffraction Techniques	Dr. Sunil & Dr. Biswapriya Deb	12	08/06/26 to 19/06/26
9	Microscopic and Diffraction Techniques	Dr. Karthik P.	16	15/06/26 to 19/06/26
10	Mechanical Testing and Thermal Characterization	Dr. Parijat Pallab Jana	12	22/06/26 to 24/06/26
11	Skill/Project Interns-1	General	306	01/03/26 to 30/06/26



High Impact Factor Publications

Division	Publication	Authors / Team	Journal	Impact Factor
Biosciences and Bioengineering Division	Repurposing Nano-Dimensions of a Small Phytomolecule, Rhein, Into Nano-Rhein to Unveil Its Efficacy on Hypercalciuria-Induced Nephropathies on a SERS-Based Calcification Profiling Platform	Murali, Madhukrishnan; Priya Murali, Vishnu; O Jayarajan, Roopasree; P, Abeesh; R Sherin, Daisy; S Arya, Jayadev; Prasad, M M Vishnu; G. Jayasree, Elambalassery; K Nair, Lekha; P Panicker, Sreejith; Kumar Maiti, Kaustabh	Advanced Healthcare Materials	11.0
Centre of Excellence in Ayurveda Research	Uttroside B, a US FDA-designated 'Orphan drug', mitigates the development of hepatocellular carcinoma and its pulmonary metastasis via EGFR/ERK-mediated inhibition of SREBP-1 and STAT-3	Chenicheri Kizhakkeveettil Keerthana, Tennyson P Rayginia, Kalishwaralal Kalimuthu, Sandhini Saha, Nair H Haritha, Nisthul A Amrutha, Mundanattu Swetha, Sreekumar U Aiswarya, Lekshmi R Nath, Sanjay Suresh Varma, Arun Viswanathan, S Jannet, J Shirley, JS Aparna, Archana Praveen, Vishnu Sunil Jaikumar, Sankar Sundaram, Nikhil Ponnoor Anto, Tushar K Maiti, C Sadasivan, Noah Isakov, Ravi S. Lankalapalli, Kuzhuvelil B Harikumar, Ruby John Anto	Cell Death Discovery	10.4
Chemical Sciences and Technology Division	Synthesis of NiFe ₂ O ₄ -Graphene mesoporous hybrid electrode material for supercapacitor application	Nithya, C. S.; Mazumdar, Susmita; Deka, Sasanka; Praveen, Vakayil K.; Joseph Joly, V. L.	Carbon	12.7
Chemical Sciences and Technology Division	Temperature-Driven Reversible p-to-n Switching in Ionic Liquid-Modified Single-Walled Carbon Nanotube Thermoelectric Films for Flexible Waste Heat Recovery	Dheepika, R., Jacob, N., Martin, R., Raveendran, N., Deb, B., & Vijayakumar, C.	Small	11.8
Chemical Sciences and Technology Division	Advancing polyhydroxybutyrate-co-polyhydroxyvalerate (PHBV) production from coconut coir pith waste: An intensified and targeted approach for sustainable bioconversion through enzymatic hydrolysis	Pinaki Dey, Amber Shahi, Suruthi Saravana Vijayakumar, Dibyajyoti Haldar, Chhavi Sharma, Palanisamy Athiyaman Balakumaran	Journal of Cleaner Production	10.7
Centre for Sustainable Energy Technologies	High-energy density hybrid supercapacitors with nickel disulfide cathodes and sulfur-doped reduced graphene oxide anodes.	Srihari, R. S., Jyothis, J. S., Surendran, K. P., & Rakhi, R. B.	Chemical Engineering Journal	12.5
Materials Science and Technology Division	Rationally designed anisotropic nylon-11/silk nanofibril aerogel triboelectric nanogenerators for efficient kinetic energy scavenging.	George, A., Varghese, H., Chandran, A., Surendran, K. P., & Gowd, E. B.	Chemical Engineering Journal	12.5
Materials Science and Technology Division	Engineered self-sterilizing face masks via silver nanowire-microparticle composite ink printed on fabrics.	Pillai, A. S., Varghese, H., Adarsh, V. P., Puthiyamadham, A., Sudhakar, S., Sukumaran, R. K., Chandran, A., & Peethambharan, S. K.	Chemical Engineering Journal	12.5

High Impact Factor Publications

Division	Publication	Authors / Team	Journal	Impact Factor
Materials Science and Technology Division	Room-temperature self-healing behaviour of fluorescent, dual dynamic bonded cardanol polyol modified waterborne polyurethanes	Koonakkampully Sunil, Devikrishna; Bera, Soumyadeep; Thomas, Sabu; Kattimuttathu Ittara, Suresh	Chemical Engineering Journal	12.5
Materials Science and Technology Division	Towards sustainable Al-air batteries: Electrolyte engineering using water-in-salt chemistry for improved performance	Manikkoth, M., MG, A., Manoj, V., & TPD, Rajan	Journal of Energy Storage	10.7



Patents

Division	Title of Patent	Authors / Team	Status
Agro and Food Processing Technology Division	A Process for The Production of Freeze-Dried Encapsulated Micronutrient Premix for Food Fortification	Chinnaswamy Anandharamakrishnan, Yadav Devika, Lakshmanan Mahalakshmi, Ramakrishnan Mani Bharathi	Provisional Patent
Agro and Food Processing Technology Division	A Process for Mct Oil Manufacturing Using Coconut Oil Deodorizer Distillate (Codd)	Sobankumar Dasiah Retnabai, Prakasan Nisha, Evan Channanathil Biju, Anagha Sara Bobby, Vasanth Ragavan Krishnamoorthy, Veluppambu Madam Vadirajan Venugopalan, Anupama Anitha Rajamony	Provisional Patent
Biosciences and Bioengineering Division	High-Specificity Enzymatic-Membrane Catalytic Bioreactor for Precision Enzymatic Hydrolysis and Biosynthesis of Functional Oligosaccharides	Dey Pinaki	Provisional Patent
Environmental Technology Division	UAGB-MER Reactor for Production of Bio-H ₂ from Liquid Waste/Wastewater	Kundu Partha, Sivaraman Savithri	Provisional Patent
Environmental Technology Division	Microbial-Bio-Electrochemical Reactor (M-Bec) For Enhanced Bio-H ₂ Production	Kundu Partha	Provisional Patent
Centre for Sustainable Energy Technologies	A Process and Formulation for Making High Solid-Loaded ZnO Nano-Dispersion with Luminescent Properties	Asok Adersh, Varughese Sunil, Alaganandam Kumaran, Murukan Sangeetha Santhi, Winson Cinu, Vijayakumari Haripriya Mahadevan	Provisional Patent



Technology

Division	Technology	Authors / Team	Technology Readiness Level (TRL)	Significance
Agro and Food Processing Technology Division	Production of MCT Oil from Coconut and Palm Kernel Oil	Dr. K. Vasanth Ragavan	TRL 4	This indigenous technology enables economical, scalable production of high-purity (90–95%) MCT oil from coconut and palm kernel oils. By integrating fractionation, re-esterification, and refining, it supports MSMEs and start-ups, promotes value-added oleochemicals, reduces import dependence, and creates sustainable commercial opportunities.
Agro and Food Processing Technology Division	Production of high protein, low glycemic index (GI) rice enriched with micronutrients	Dr. C. Anandharamakrishnan	TRL 4	This technology produces high-protein, low-GI designer rice using advanced extrusion technology, enhancing nutritional quality while maintaining familiar consumption patterns. It helps address protein deficiency, hidden hunger, and diabetes-related health risks, offering a practical, scalable solution for improving nutritional security and public health outcomes.
Centre for Sustainable Energy Technologies	Even solar sharing agrivoltaics (ESS-AV) technology	Dr. Adersh Asok	TRL 7	Agrivoltaics integrates electricity generation and crop cultivation on the same land. The developed system regulates solar radiation reaching crops, reducing solar and water stress, improving microclimatic conditions, enhancing crop growth and water-use efficiency, while generating clean energy for sustainable agricultural production.
Critical Minerals and Metals Division	Development of green dark-glow materials for safety signage applications	Dr. Subrata Das	TRL 4	Dark glow persistent phosphor materials store natural or artificial light and emit visible light for extended periods in darkness. They reduce energy consumption, support sustainable buildings, enhance safety through emergency signage and pathway markings, and find applications in decorative products, toys, and roadway guidance systems.



Awards and New Joinees

AWARDS



Dr. Achu Chandran, Scientist – E
ADVANCED FUNCTIONAL MATERIALS DIVISION

First DV Kapur Foundation Energy Award
ILCS Bronze Medal Award-2025
Best Presentation award (Oral) Young Scientist Conclave (YSC), IISF 2025
First Energy Innovation Award-2025
Elected as member of the prestigious Indian National Young Academy of Science (INAYAS)



Dr. Venkatesh R, Scientist – C
AGRO AND FOOD PROCESSING TECHNOLOGY DIVISION

Received Young Scientist Award, during the International Conference on Sustainable Innovations in Agriculture, Veterinary and allied Sciences
Received the Coconut Development Board young scientist award at the 'National conference on recent advancement in Food Analytical Chemistry (RAFAC), 2026'



Dr. Ishita Neogi, Scientist – D
CHEMICAL SCIENCES AND TECHNOLOGY DIVISION

Selected as a member of Indian National Young Academy of Science for the period of February 2025- February 2030



Mr. Chandra Shekar Neelam, Executive Engineer
AGRO AND FOOD PROCESSING TECHNOLOGY DIVISION

Represented the CSIR National Team in the Sidhu Memorial Table Tennis event at the CSIR SPB Invitational Indoor Tournaments 2025
November 11-14, 2025

Hearty Welcome to Our New Members



Name: **Dr. R. Mohammed Saleem**
Designation: **Scientist – C**
Date of Joining: **26/3/2026**
Division: **ADVANCED FUNCTIONAL MATERIALS DIVISION**



Name: **Dr. Villayat Ali**
Designation: **Scientist – C**
Date of Joining: **26/3/2026**
Division: **CENTER FOR EXCELLENCE IN AYURVEDA RESEARCH**

Hearty Welcome to Our New Members



Name: **Mr. Nandhu Lal A. M.**
 Designation: **Scientist – C**
 Date of Joining: **26/3/2026**
 Division: **INNOVATION, TECHNOLOGY AND ENTREPRENEURSHIP HUB**



Name: **Dr. Akhil S. Karun**
 Designation: **Scientist – C**
 Date of Joining: **27/3/2026**
 Division: **PROJECT MONITORING AND EVALUATION DIVISION**



Name: **Dr. Karthik P.**
 Designation: **Scientist – C**
 Date of Joining: **27/3/2026**
 Division: **AGRO AND FOOD PROCESSING TECHNOLOGY DIVISION**



Name: **Dr. Jyoti**
 Designation: **Scientist – C**
 Date of Joining: **6/4/2026**
 Division: **BIOSCIENCES AND BIOENGINEERING DIVISION**



Name: **Dr. Meenatai Gunderao Kamble**
 Designation: **Scientist – C**
 Date of Joining: **10/4/2026**
 Division: **AGRO AND FOOD PROCESSING TECHNOLOGY DIVISION**



Name: **Dr. Hemanth Mithun Praveen**
 Designation: **Scientist – C**
 Date of Joining: **13/4/2026**
 Division: **ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING UNIT**



Name: **Dr. Kosuru Ravi Kumar**
 Designation: **Scientist – C**
 Date of Joining: **13/4/2026**
 Division: **CHEMICAL SCIENCES AND TECHNOLOGY DIVISION**

Hearty Welcome to Our New Members



Name: **Dr. Narendra Kumar Vaishanva**
 Designation: **Scientist – C**
 Date of Joining: **10/07/2026**
 Division: **CENTER FOR EXCELLENCE IN AYURVEDA RESEARCH**



Name: **Dr. Shushil Kumar Rai**
 Designation: **Scientist – C**
 Date of Joining: **13/07/2026**
 Division: **CENTER FOR SUSTAINABLE ENERGY TECHNOLOGIES**



Name: **Dr. Biswajit Saha**
 Designation: **Ramanujan Fellow**
 Date of Joining: **15/12/2025**
 Division: **ADVANCED FUNCTIONAL MATERIALS DIVISION**



Name: **Mr. Vikas Kumar**
 Designation: **Junior Hindi Translator**
 Date of Joining: **28/1/2026**
 Division: **ADMINISTRATION**



Name: **Mr. V. Krishna Kumar**
 Designation: **Security Assistant**
 Date of Joining: **14/5/2026**
 Division: **ADMINISTRATION**

OBITUARY

Late Shri. P. Balan
Former Scientist Gr.IV(4)
(1946–2026)

Date of Birth: 01.10.1946
 Date of Joining CSIR: 14.02.1979
 Date of Retirement: 30.09.2006
 Date of Death: 26.04.2026



Late Shri. S Ramakrishnan
Former Sr. Technical Officer(3)
(1945 – 2026)

Date of Birth: 23.07.1945
 Date of Joining CSIR: 10.09.1973
 Date of Retirement: 31.07.2005
 Date of Death: 21.04.2026



Late Shri. V Sreekantan
Former Lab Assistant
(1954 – 2025)

Date of Birth: 22.11.1954
 Date of Joining CSIR: 14.06.1979
 Date of Retirement: 30.11.2014
 Date of Death: 13.12.2025



Tearful Eyes for our Departed Members

Compiled, Designed and Published by

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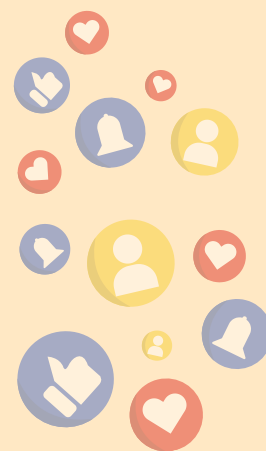
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