Monthly E-Publication

September 2025

CSIR Jigyasa Newsletter

Lab Spotlight
CSIR-SERC

Special Highlight
Robotics & Ocean Literacy
by CSIR-NIO

102 Programmes Conducted

33431 Students Benefitted

3555 Teachers Benefitted

35 Labs Covered

Hon'ble Prime Minister's Vision: Student – Scientist Interaction

A Vision that became a reality

CSIR Society Meeting (6 April 2016)

"CSIR to create a **vibrant student- scientist interaction**"

Shri Narendra Modi
(President, CSIR and Hon'ble Prime Minister of India)

"**Laboratories to become Centre of attraction for children** and maximum opportunity to students to perform research at CSIR laboratories."

Shri Narendra Modi
(President, CSIR and Hon'ble Prime Minister of India)

CSIR Foundation day (26 Sept 2016)

104th Indian Science Congress (03.01.2017)

"**Scientific Social Responsibility** needs to be inculcated to connect our leading institutions to all stakeholders, including schools.

Shri Narendra Modi
(President, CSIR and Hon'ble Prime Minister of India)

"Our **Scientists** have been asked to develop programmes on **science teachings** in our schools across the country. This will also involve training teachers"

Shri Narendra Modi
(President, CSIR and Hon'ble Prime Minister of India)

Nobel Prize Series Exhibition at Gandhinagar on 9th January 2017

CSIR Society Meeting (14th February 2020)

"**Develop virtual labs** so that science can further be taken to all segments of the students in each and every corner of the country"

Shri Narendra Modi
(President, CSIR and Hon'ble Prime Minister of India)

Shri Narendra Modi

Hon'ble Prime Minister of India
and President, CSIR

> "…. I have an idea for this, which you can call **'One Day as a Scientist'**. That is, you should try to spend one day as a scientist. You can choose any day as per your convenience and choice….."
>
> 119th #MannKiBaat

Dr. Jitendra Singh

Hon'ble Minister of Science
& Technology
& Vice President, CSIR

Dr. (Mrs.) N. Kalaiselvi

DG, CSIR & Secretary, DSIR

Dr Jitendra Singh
@DrJitendraSingh

Amazing clarity, confidence and concept with which the Gen Z puts across its point of view.

Interaction with school children participating in "One Day as a Scientist" event, organised as a part of #CSIR #Jigyasa, ended up in a "pleasant" rebound...at the end of the day, it was the elders who went home educated and tutored by these young bright kids...the little tall torchbearers of ViksitBharat@2047 envisaged by PM @narendramodi.

Last edited 3:56 PM · Jul 25, 2025 · **7,279** Views

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Message from DG, CSIR & Secretary, DSIR

सत्यमेव जयते

डॉ. (श्रीमती) एन. कलैसेल्वी
सचिव
वैज्ञानिक और औद्योगिक अनुसंधान विभाग, तथा
महानिदेशक

Dr. (Mrs.) N. Kalaiselvi
Secretary
Department of Scientific & Industrial Research, and
Director General

भारत सरकार
विज्ञान और प्रौद्योगिकी मंत्रालय
वैज्ञानिक तथा औद्योगिक अनुसंधान परिषद्
वैज्ञानिक और औद्योगिक अनुसंधान विभाग

Government of India
Ministry of Science and Technology
Council of Scientific & Industrial Research
Department of Scientific & Industrial Research

Message

Dear Students,

With immense pride and joy, I connect with each of you through the CSIR Jigyasa Newsletter. The Jigyasa program was launched in 2017, under the visionary guidance and direction of the Hon'ble Prime Minister of India and President, CSIR, who emphasized the need for scientist – student connect and nurture scientific temper in young minds across the nation. Since its inception in 2017, CSIR Jigyasa programme has grown into one of the largest outreach programme of CSIR and the most impactful science outreach initiatives in the country benefitting almost 13,50,000 students and 80,000 teachers PAN India.

Each scientist was once a student just like you—already curious and deeply eager to learn. A researcher's journey, from a student to the laboratories, is an inspiration to many young minds. I feel a sense of pride and joy as I see how the CSIR Jigyasa programme is illuminating the path towards the realms of science, technology, and innovation for the young aspiring students. Under this initiative, CSIR aims to demonstrate that science is not simply something that resides within the pages of textbooks but a fun-filled adventure that is driven by wonder and yearning to explore. Your engagement in activities such as visiting the labs, attending lectures, and participating in practical sessions, interacting with researchers and scientist, reflects the true spirit of scientific exploration, which our country values immensely.

As you embark on your scientific journey, remember: every great discovery begins with a question. Continue to ask and explore, for science is not solely about finding answers, it's about the courage to ask, to explore, and to imagine a better world.

I encourage you to dream big, stay curious, and never stop learning. The future of Indian science is in your hands—and it looks incredibly bright.

With best wishes and great hope,

N. Kalaiselvi

July 21, 2025
New Delhi

(N. Kalaiselvi)

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Eminent Scientist Column

Buildings, Bridges and Beyond: Exploring Civil Engineering

Dr. N. Anandavalli
Director, CSIR-SERC & Coordinating Director,
CSIR Madras Complex
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Civil engineering has always been closely tied to the needs of society. From building safe shelters to creating roads and bridges that connect people and places, it forms the backbone of development.

From Mud Huts to Smart Cities

In the past, people built houses using mud, wood, and stones available locally. Today, we see tall apartments, highways, and smart cities. Civil engineers are at the center of this transformation —making sure our buildings are safe, eco-friendly, and ready for the future.

Ancient Marvels, Modern Aspirations

Do you know that India's engineers were creating wonders long before modern machines existed?

Civil engineering is not new—it blends the wisdom of ancient structures with modern technology. India's heritage showcases remarkable feats: the stepwells of Gujarat, the Brihadeeswara Temple in Thanjavur, the Konark Sun Temple, and the forts of Hampi, all of which demonstrate extraordinary planning and execution. These examples continue to inspire today's engineers to build strong, sustainable, and eco-friendly solutions such as green buildings, water harvesting, and recycling.

With innovations like 3D printing, automation, and even future space habitats, civil engineering offers immense opportunities for addressing challenges like urban traffic, pollution, and climate change while shaping our vision to becomeViksit Bharat.

Civil engineering students have vast opportunities to lead future innovations like automation with robots and drones, 3D-printed houses, and sustainable construction. Breakthroughs such as India's first 3D-printed house by IIT Madras and CSIR-SERC's 3D print pod show the potential. Looking ahead, even building space colonies could move from dream to reality.

Green Buildings – Homes of the Future

Green buildings are eco-friendly, energy-efficient structures that use natural light, ventilation, solar power, and recycled materials. They reduce carbon footprint through innovations like fly ash (waste from power plants) concrete, roof gardens, and rainwater harvesting. In India, some of the public places such as airport, railway stations are moving towards green building concepts.

CSIR-SERC itself pioneered India's first fly ash-based building, reducing cement usage by nearly 30%. If widely adopted, green buildings can cut energy consumption, lower pollution, and improve urban living conditions.

Bridges: Transforming Lives

Bridges are more than structures—they connect people, trade, and cultures. Bridges come in different types: beam bridges, arch bridges, suspension bridges and cable stayed bridges. Each type is chosen depending on the span, the load and the cable-stayed bridge built to withstand sea waves and high speed winds.

India's engineering marvels—from the enduring Howrah Bridge (1943) and the coastal Bandra-Worli Sea Link to the historic Pamban Bridge (1914) and its replacement with a vertical-lift design the

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Eminent Scientist Column

Buildings, Bridges and Beyond: Exploring Civil Engineering

New Pamban Bridge (2025)—showcase innovation across eras with the Chenab Rail Bridge in Jammu & Kashmir standing as the world's highest railway bridge, connects remote regions to the nation.

To ensure safety and longevity of such bridges, modern engineers now use advanced materials, sensors, and drones for regular "structural health assessments," much like medical checkups for people. CSIR – SERC has spear headed in structural health monitoring of bridges and structures including that of new Pamban Bridge.

3D-Printed Houses: tomorrow's reality today

3D printing is a process of making objects layer by layer from a digital design, similar to how a regular printer prints on paper—but instead of ink, it uses materials like plastic, metal, or even concrete. Extending the same idea, a house is printed layer by layer with concrete That's 3D printing in construction.

India's first 3D-printed house was built in Chennai by IIT Madras and a startup (Tvasta) in 2021. Such homes are cost-effective, quick to build, and sustainable—making them suitable for disaster relief and affordable housing.

At CSIR-SERC, a full-scale modular 3D-printed concrete pod has been fabricated, demonstrating how digital fabrication, modular design, and advanced concrete can redefine architectural possibilities.

Expanding Horizons: From Earth to Space

When we think of space, rockets and astronauts come to mind—but designing safe shelters on Mars or the Moon will be the work of civil engineers. To protect humans from extreme cold, radiation, and dust storms, engineers are exploring 3D-printing habitats using Martian soil (regolith). With ISRO's Chandrayaan and Mars Orbiter Mission proving India's capabilities, the future may see Indian civil engineers creating space colonies.

Renewable Energy and Offshore Innovations

Renewable energy is key to reducing carbon footprints, and civil engineers play a vital role beyond building foundations for wind and solar farms. With India's vast coastline, offshore wind and solar installations—whether fixed or floating—are the future. While these technologies are currently imported, CSIR-SERC is developing indigenous designs for floating offshore platforms to host turbines and panels.

A Career that Shapes the Future

Civil engineering is a rewarding career that shapes the world through roads, bridges, and sustainable cities while tackling challenges like climate change. It offers diverse opportunities, strong career prospects, and the chance to apply science and creativity to real-world problems. As civil engineers are essential across all fields, their role will always be vital—making it a meaningful path for those who want to contribute to society and nation building.

I urge young minds to explore this dynamic field, contribute to nation-building, and carry forward the legacy of innovation, sustainability, and service to society.

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Student Column

A Day of Science, Learning and Discovery

Vaibhav S. (Class X)
Sishya School OMR
Thoraipakkam, Chennai

Representing my school, Sishya OMR, at the inter-school science quiz hosted by CSIR–SERC, Chennai, on 16th September, 2025 was one of the most enriching experiences of my student life.

The quiz began with a written round of 25 challenging questions, where the hall buzzed with focus and quiet intensity. Competing against teams from across Chennai and Puducherry, we balanced speed with accuracy, feeling both relief and suspense as we handed in our answers. Soon after, the top six teams advanced to the finals, where the atmosphere turned electric. The quizmaster, with his wit and clarity, transformed tough questions into moments of excitement. Rapid-fire rounds, buzzer battles, and visual clues tested not just knowledge, but also quick thinking, making the finals thrilling and unforgettable.

After the competition, we were treated to a guided tour of CSIR–SERC's cutting-edge laboratories. From witnessing 3D-printable concrete and massive fatigue-testing machines to watching wind tunnels and shake tables simulate storms and earthquakes, each lab revealed how science safeguards and shapes our world.

By the end of the day, I carried home not just memories, but a renewed determination to explore, question, and learn.

One Day As a Scientist Programme at CSIR-SERC

Parag R. R. (Class XI)
Velammal New Gen School
Medavakkam, Chennai

On 21 July 2025, I had the life-changing opportunity to step into the world of science through CSIR Jigyasa's "One Day As A Scientist" programme at CSIR-SERC. The day began with a virtual inauguration by Dr. Vinay K. Nandicoori, Director, CSIR-CCMB, who introduced us to the vision of CSIR and delivered an eye-opening lecture on Antimicrobial Resistance. A truly special moment was meeting Dr. N. Anandavalli, Director, CSIR-SERC, whose encouraging words urged us to connect lab learning with real-life challenges. Her interaction filled us with motivation and confidence.

Our visit to CSIR-CEERI, unit in CMC was equally fascinating. We explored concepts like spectroscopy, X-ray imaging, and PCBs, and even saw an innovative device that detects driver fatigue through ECG monitoring. Post lunch, the Wind Engineering Lab at CSIR-SERC, offered another highlight, where we observed the Boundary Layer Wind Tunnel in action. Learning about wind loads, vehicle aerodynamics, and natural frequency—and even conducting an experiment ourselves—helped us realize how science shapes the world around us.

This inspiring journey taught me that true learning is about curiosity, exploration, and problem-solving. The experience strengthened my dream of becoming a scientist and contributing to society through research and innovation.

Jigyasa Mentor / Nodal Column

My Jigyasa Voyage; Inspiring the Next Generation

Dr. S. Maheswaran
Senior Principal Scientist & Head SHRDD
maheswaran.serc@csir.res.in

My journey as nodal scientist for Jigyasa 2.0 programme has been immensely satisfying. Every year under Atal Tinkering Lab (ATL) Workshops, 16 Govt. schools are covered in 4 districts of Tamil Nadu. On an average we are able to reach out to about 2500 students and 200 teachers from class IX to XI each year. Mostly ATL schools located in rural or semi-urban areas are chosen. The spark in the eyes of the children and a sense of hope we are able to instill in them is the most satisfying reward for our activity.

Apart from this under Jigyasa many more activities are conducted at CSIR-SERC. Every year two scientific competitions namely 'SCIFIC' and 'TECHNOVATION' for class 6-8 and class 9-12 respectively of government schools in Tamil Nadu and Puducherry including Kendriya Vidyalaya (Chennai Region) brings out innovative scientific ideas in the young minds. The winning kids receive cash prize & certificates and get a chance to visit the laboratories of CSIR-SERC.

Recently a teacher's workshop for two days was exclusively conducted for teachers handing science and maths subject in schools being run by Greater Chennai Corporation on the concept of 'train the trainers. The feedback from the teachers was very inspiring, they expressed their gratitude and mentioned that this was a one of a kind experiences they have had till date. More such workshops were requested by the teachers.

During December 2024, CSIR-SERC hosted a Scientific Aptitude Assessment Event at its Taramani campus for 25 students and two teachers from PM SHRI Kendriya Vidyalaya, Meenambakkam. The programme included a guided hands-on experiment (conducted virtually by CSIR-IGIB, New Delhi), an aptitude test to gauge scientific thinking, and visits to advanced research laboratories at SERC. The event also provided an opportunity for students to interact directly with scientists, including our Director Dr. N. Anandavalli, and to participate in the national-level CSIR Jigyasa EPIC Hackathon 2024 Finale online. This blend of experimentation, evaluation, and exposure gave students a first-hand taste of the scientific method and its applications in real-world research.

Building on this momentum, a three-day Jigyasa Summer Camp was organized at the SERC campus, exclusively for government school students and teachers from Chennai, Kanchipuram, Tiruvallur, and Chengalpattu districts of Tamil Nadu. The camp brought together 39 students and 13 teachers for an immersive learning experience. Activities included laboratory demonstrations, quizzes, and hands-on experiments, along with motivational talks by senior scientists. This camp not only enhanced student engagement but also provided teachers with insights into innovative pedagogical approaches.

It would require a complete report of 50-60 pages to list out all the activities of Jigyasa, the above are just highlights. I feel elated and fortunate to be able to express my thoughts here.

In my journey at CSIR-SERC of over 25 years, I feel Jigyasa is one of the most noble initiatives taken by CSIR. It serves the social obligation of our organisation. It is our outreach to the future generation. Jigyasa helps CSIR in transforming from a elusive organisation to one among the common man, helping him out in achieving his dreams be in present or next generation.

CSIR-NIO : Robotics & Ocean Literacy
(Special Highlight)

Live transmission and control of operation during coral reef monitoring

Remotely Operated Vehicles (ROVs) have transformed the way humans study the ocean by allowing exploration in environments that are inaccessible and unsafe for divers. Traditionally, these vehicles rely on tethers and surface vessels for operation, which restricts their use to institutions with considerable resources. This limitation has created a gap in accessibility, especially for students and researchers based inland, who often lack the opportunity for meaningful hands-on experience with marine robotics.

To address this challenge, a comprehensive internet-based teleoperation system was developed using the commercially available BlueROV2 platform. The system is designed to democratize access to underwater robotics, enabling students and researchers to pilot an ROV from anywhere with internet coverage.

The ROV was selected as the vehicle of choice because of its affordability, modularity, and open-source architecture. Its six-thruster vectored configuration allows precise manoeuvring in multiple degrees of freedom, while its onboard sensors—including gyroscopes, accelerometers, magnetometers, and depth sensors—enable stability features such as heading lock and depth hold. The vehicle is equipped with a high-definition low-light camera mounted on a servo tilt mechanism and supported by LED lights, ensuring clear video transmission. These capabilities provide both technical robustness and educational value, making the platform well-suited for remote learning applications.

The heart of the blue ROV was modified to a Linux-based system running the Robot Operating System (ROS) that performs sensor fusion, video streaming, command handling and runs the control systems for depth, direction and speed. This software was developed jointly by CSIR NIO and instituto superior tecnico (IST), Lisbon under India-portugal joint research program for the development of hybrid AUV.

Using ROSBridge, telemetry and control signals are made accessible to remote clients through WebSockets. This integration allows the topside system to interact seamlessly with a mobile application that serves as the user's interface. Smartphones were chosen as the primary control platform because of

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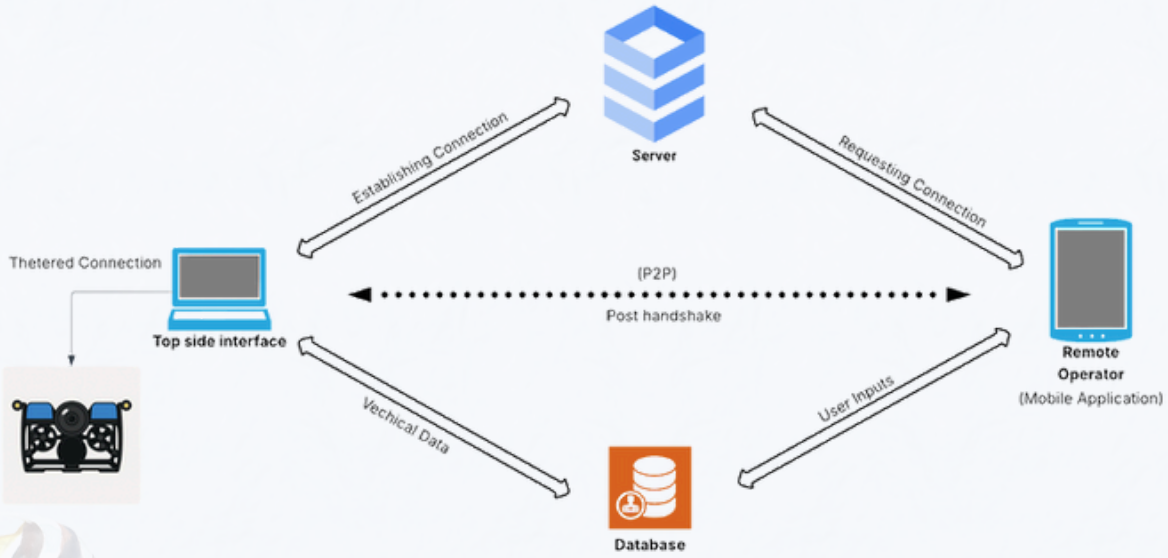
CSIR-NIO : Robotics & Ocean Literacy
(Special Highlight)

Live transmission and control of operation during coral reef monitoring

their ubiquity and affordability, ensuring accessibility even in resource-limited settings. The application provides intuitive joystick controls and real-time video streaming through WebRTC, minimising latency while maintaining reliability. An administrative web interface supports session management, telemetry visualisation, and instructor overrides, ensuring safe and supervised operation during educational activities. The system consists of a Server, a database, a mobile app (Client) and the interface at the ROV hardware as shown in figure below.



The server facilitates the handshaking between the selected client and the ROV, after which the mobile app and the ROV directly communicate to each other using the P2P link.

Safety and reliability are the central considerations in the system's design. Heartbeat monitoring ensures that if a connection is lost, the ROV automatically halts movement and maintains position, preventing accidents. At any point, administrators can override student commands to safeguard the vehicle and marine environment. These measures ensure that students can experiment freely while instructors maintain ultimate control.

The system was tested extensively in both controlled and real-world environments. Initial pool trials confirmed the responsiveness of the user interface, video quality, and the reliability of failsafe mechanisms. Later, open-water deployments in the coral reef environments of Lakshadweep brought new challenges such as fluctuating cellular connectivity, variable water currents, and environmental disturbances. Despite these conditions, the teleoperation system performed consistently well. Students who participated in remote piloting found the experience highly engaging and exciting, reaffirming the project's strong educational value. The first "field-to-classroom" event was held at

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CSIR-NIO : Robotics & Ocean Literacy
(Special Highlight)

Live transmission and control of operation during coral reef monitoring




Agatti Island, Lakshadweep, in November 2024, where students remotely explored coral reefs in real time. A follow-up event took place in Dwarka in January 2025, showcasing marine archaeological artefacts to students. Building on these successes, CSIR-NIO now plans to conduct live transmissions from Grande Island, Goa, and from Lakshadweep, connecting the oceans of the southwest to students in the Himalayan regions of northeast India.

By removing financial and geographical barriers, this work highlights how internet-based teleoperation can significantly broaden access to marine robotics. Students in landlocked regions can now gain an authentic underwater exploration experience without the need for specialised facilities or costly expeditions. Beyond education, the project demonstrates a model that can extend to other domains such as aerial drones, agricultural robotics, and industrial teleoperation. Currently, the system is connected with Dwarka and before March 2025, CSIR-NIO is aiming to test for live transmission from lakshadweep, which will help give access to south west from north east and vice-versa.

Future developments aim to enhance autonomy and expand coverage. Integration with satellite networks could extend operations beyond cellular zones, while computer vision-based object tracking, obstacle avoidance, and waypoint mission planning would reduce the dependency on communication.

This project demonstrates that affordable ROVs, combined with modern web and mobile technologies, can create scalable and accessible educational tools. By allowing students worldwide to engage in real-time underwater exploration, it not only provides genuine scientific and engineering experiences but also paves the way for democratising access to advanced robotics education and fostering global collaboration in STEM fields. This system is widely used, and can be adopted to different vehicles/robots.

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Jigyasa Monthly Highlights

Lab Name	No. of events	Total no. of Students benefitted	Total number of Teachers benefitted	Engagement Activities
CSIR-CCMB	1	2001	136	Open Day, Demonstration
CSIR-CDRI	5	1280	92	School visit, Popular Lecture, Lab Visit, Demonstration, Day of Importance, Foundation Day, Open Day, Competition, Quiz, DIY kit Demonstration
CSIR-CFTRI	2	245	16	School Visit by Scientists, Competition, Quiz, Open Day, Lab Visit, Popular Lecture, Demonstration
CSIR-CIMAP	3	175	14	Online Engagement, Competition, Webinar
CSIR-IGIB	3	150	8	Lab Visit, Demonstration, Popular Lecture
CSIR-IHBT	6	504	45	Field Visit, School Visit, Demonstration, Workshop, Lab visit, Open Day, Popular Lecture, Quiz
CSIR-IICB	1	63	6	Popular Lecture
CSIR-IIIM	3	973	71	Lab Visit
CSIR-IMTECH	1	90	7	Foundation Day, Lab Visit, Demonstration, Quiz, Open Day
CSIR-IITR	2	1420	25	Foundation Day, Lab Visit, Popular Lecture, Demonstration, Quiz, Open Day, Competition
CSIR-NBRI	6	2877	125	School Visit, Popular Lecture, Quiz, Workshop, DIY kit Demonstration, Open Day
CSIR-CLRI	4	261	26	Lab Visit, Demonstration, Foundation Day, Competition, Oral & Poster Presentation
CSIR-CECRI	4	9827	784	School Visit, Popular Lecture, Demonstration, Quiz, DIY kit Demonstration, Lab Visit, Teachers Training, Workshop, Open Day
CSIR-CSMCRI	1	797	57	Day of Importance, Popular Lecture
CSIR-CIMFR	1	30	4	Students Visiting Lab, Demonstration, DIY kit Demonstration
CSIR-IICT	2	120	50	Lab Visit, Popular Lecture, Demonstration, DIY kit Demonstration
CSIR-IIP	2	175	20	Lab visit, Popular Lecture, Open Day
CSIR-NEIST	5	195	25	Students visiting Lab, Day of Importance, Popular Lecture, Demonstration, Foundation Day, Competition, Quiz, Essay Writing
CSIR-NIIST	2	1340	66	Lab Visit, Popular Lecture, Open Day
CSIR-AMPRI	4	387	46	School Visit, Popular Lecture, Demonstration, Student Scientist Interaction
CSIR-CBRI	2	150	14	Field Visit for Students, Open Day, Foundation Day, Lab visit, Popular Lecture, Demonstration, School Visit

Jigyasa Monthly Highlights

Lab Name	No. of events	Total no. of Students benefitted	Total number of Teachers benefitted	Engagement Activities
CSIR-CGCRI	1	50	10	Lab visit, Popular Lecture, Demonstration, Quiz, DIY kit Demonstration
CSIR-CMERI	9	1089	154	Lab Visit, School Visit, Demonstration, DIY kit Demonstration
CSIR-CRRI	1	92	4	Lab Visit, Demonstration, Open Day
CSIR-IMMT	5	503	23	Lab Visit, School Visit, Day of Importance, Popular Lecture, Open Day, Foundation Day, Demonstration
CSIR-NAL	6	236	19	Lab Visit, Competition, Workshop, Oral & Poster Presentation
CSIR-NML	2	165	9	Student Visiting Lab
CSIR-NEERI	5	487	42	Lab visit
CSIR-SERC	1	175	8	Open Day, Foundation Day, Day of Importance, Lab visit, Demonstration, Hackathon
CSIR-4PI	2	295	4	Competition, Lab Visit, Popular Lecture, Orla & Poster presentation, Open Day
CSIR-CSIO	3	350	2	Field Visit for Students, School Visit, Open Day, Quiz, Foundation Day
CSIR-CEERI	2	1100	80	Open Day, Foundation Day, Demonstration
CSIR-NGRI	2	5000	1500	Student Visiting Lab, Quiz, School Visit, Workshop, Open day
CSIR-NIO	1	650	50	Lab visit, Open Day, Foundation Day, Popular Lecture, Demonstration
CSIR-NPL	2	179	13	Lab visit, Demonstration, Popular Lecture, Competition
Total	102	33431	3555	

Jigyasa Monthly Highlights

CSIR-NGRI, Hyderabad

September 15, 2025

- 60 students and 3 teachers from Sanskar Innovative School visited the lab and interacted with scientists.

September 26, 2025

- Open Day programme was conducted for 4,500 students and 280 teachers from more than 60 schools across Hyderabad and surrounding cities.

CSIR-IITR, Lucknow

September 21, 2025

- 20 students from 4 different schools participated in a painting and essay writing competition.

September 25, 2025

- Open day was organized for 1320 students and 20 teachers from 5 different schools.

September 29, 2025

- 100 students and 5 teachers from Birla Balika Vidyapeeth, Pilani visited the lab.

CSIR-IICB, Kolkata

September 16, 2025

- Scientists visited and shared their knowledge with 63 students and 6 teachers at PM Shri Kendriya Vidyalaya No. 2.

Jigyasa Monthly Highlights

CSIR-NAL, Bengaluru

September 4, 2025

- 60 students and 4 teachers visited the lab.

September 24, 2025

- 31 students and 3 teachers participated in a doodle competition on “Swachchta for a Sustainable Future” and also attended a workshop on “Scientific Waste Segregation.”

September 25, 2025

- A student scientist programme was organized at 515 Army Base Workshop High school for 104 students and 12 teachers.

September 25, 2025

- 40 students participated in an oral & poster presentation on “Solid Waste Management”.

September 28, 2025

- 35 students and 5 teachers attended a workshop on “Electronics Unplugged”.

CSIR-CRRI, New Delhi

September 29, 2025

- 92 students and 4 teachers from Kendriya Vidyalaya Delhi Cant No. 1 participated in the open day outreach activity.

Jigyasa Monthly Highlights

CSIR-NIIST, Trivandrum

September 19-20, 2025

- Open day programme was conducted for 993 students and 46 teachers from 24 different nearby schools.

CSIR-NEIST, Jorhat

September 02, 2025

- A lab visit was organized for 75 students and 6 teachers from 3 different schools.

September 03, 2025

- 15 students and 1 teachers interacted with scientists from Don Bosco, Baghchung.

September 09, 2025

- Student Scientist connect programme was arranged for 33 students and 3 teachers from Jawahar Navodaya Vidyalaya, Golaghat.

September 10, 2025

- Outreach activity was coordinated for 15 students and 3 teachers from H.R.H The Prince of Wales.

September 09, 2025

- Quiz and Essay writing competition was organized for 57 students and 12 teachers interacted with scientists from 10 different schools.

Jigyasa Monthly Highlights

CSIR-CIMFR, Dhanbad

September 03, 2025

- 30 students and 4 teachers from Little Angels School, Parghabad visited the lab and interacted with the scientists.

CSIR-IICT, Hyderabad

September 13, 2025

- Seminar on Space Science was conducted for 60 students and 11 teachers from 10 different schools in and around Hyderabad.

September 16-17, 2025

- 64 students and 13 teachers from 4 different schools took part in an outreach activity.

CSIR-CEERI, Pilani

September 26, 2025

- Open day programme was held at CEERI, Pilani and Jaipur lab for 1238 Students and 70 teachers from different nearby schools.

Jigyasa Monthly Highlights

CSIR-NPL, New Delhi

September 23, 2025

- 55 students and 6 teachers from KV Hathras visited the lab.

September 25, 2025

- Essay competition was organized for 124 students and 7 teachers from 2 different schools in Delhi.

CSIR-CSIO, Chandigarh

September 19, 2025

- 100 students from Global Wisdom International School participated in an open day programme.

September 23, 2025

- A quiz contest was conducted for 200 students from nearby schools.

September 26, 2025

- 350 students and 2 teachers from Ryan International School took part in an outreach programme.

CSIR–CBRI, Roorkee

September 26, 2025

- On the occasion of CSIR Foundation Day, 50 students and 4 teachers visited the lab from PM Shri Kendriya Vidyalaya.

September 03, 2025

- Scientists visited PM Shri Kendriya Vidyalaya and interacted with 100 students and 10 teachers.

Jigyasa Monthly Highlights

CSIR-CECRI, Tamil Nadu

September 1, 2025

- Student scientist programme was conducted at 2 different schools for 150 students and 9 teachers.

September 2, 2025

- 154 students and 11 teachers from 16 different schools visited the lab.

September 4, 2025

- 10 teachers from 10 different schools participated in a teachers training workshop.

September 26-27, 2025

- An open day programme was organized for 9523 students and 765 teachers from 24 different schools.

CSIR-IIIM, Jammu

September 17, 2025

- 72 students and 3 teachers from Springdales High Secondary School and GHSS Magloor visited the lab.

September 26, 2025

- 800 students and 64 teachers from 12 different schools attended the open day event.

September 29, 2025

- As a part of Swachta hi Seva campaign, 101 students and 4 teachers from RRL High School participated in a painting competition.

Jigyasa Monthly Highlights

CSIR-IIP, Dehradun

September 26, 2025

- On the occasion of Foundation day, 50 students and 5 teachers from The OASIS School visited the lab.

September 29, 2025

- An open day programme was conducted for 125 students and 15 teachers from 3 different schools.

CSIR-CIMAP, Lucknow

September 02, 2025

- Online quiz competition on "India's Space Journey" was organized for 31 students and 2 teachers from Army Public School, LBS Marg.

September 03, 2025

- 71 students and 6 teachers from KV Rai Bareli and Lucknow Public College participated in an Online quiz competition.

September 03, 2025

- Online quiz competition was conducted for 83 students and 6 teachers from City Montessori School and Amity International School.

CSIR-IGIB, New Delhi

September 12, 2025

- 100 students and 7 teachers attended an Outreach programme.

Jigyasa Monthly Highlights

CSIR-NML, Jamshedpur

September 12, 2025

- 56 students and 5 teachers from Loyola School, Taldanga visited the lab.

September 19, 2025

- Student scientist programme was conducted for 109 students and 4 teachers from Rajendra Vidyalaya, Sakchi.

CSIR-CGCRI, Kolkata

September 12, 2025

- On the occasion of Foundation day, 50 students and 10 teachers from 3 different schools in and around Kolkata, visited the lab.

CSIR-CMERI, Durgapur

September 09-26, 2025

- 1089 students and 154 teachers from 9 different school visited the lab and interacted with the scientists.

Jigyasa Monthly Highlights

CSIR-NEERI, Nagpur

September 2-4, 2025

- 157 students and 7 teachers from Shree Convent & High School were invited for a field visit.

September 15, 2025

- Jigyasa programme was organized for 90 students and 15 teachers at Narayana Vidyalayam.

CSIR-IMTECH, Chandigarh

September 26, 2025

- 90 students and 7 teachers from different schools near Chandigarh participated in an open day programme.

CSIR-CFTRI, Mysore

September 04-09, 2025

- Scientists visited CFTRI school on the occasion of Nutrition Week and interacted with 60 students and 8 teachers.

September 26, 2025

- Open day programme was conducted for 185 students and 8 teachers from more than 4 different schools from Mysore and nearby cities.

Jigyasa Monthly Highlights

CSIR-CDRI, Lucknow

September 26, 2025

- On the occasion of CSIR Foundation Day, 731 students and 43 teachers from 18 different schools visited the lab.

September 29, 2025

- Student-Scientist connect program was organized for 50 Students and 6 Teachers from Birla Balika Vidyapeeth, Pilani, Rajasthan.

CSIR-AMPRI, Bhopal

September 11, 2025

- School visit was organized for 140 students and 7 teachers at PM SHRI Kendriya Vidyalaya CRPF Bangrasia.

September 12, 2025

- Scientists visited and connected with 150 students and 8 teachers from PM SHRI Kendriya Vidyalaya Bairagarh.

September 18, 2025

- 34 students and 3 teachers attended the Jigyasa programme from PM SHRI Kendriya Vidyalaya, Ordnance Factory Katni.

CSIR-4PI, Bengaluru

September 26, 2025

- 114 students and 4 teachers from Holy Crescent PU College and PM Shri Kendriya Vidyalaya ASC Centre participated in an Open day programme.

Jigyasa Monthly Highlights

CSIR-CLRI, Tamil Nadu

September 10, 2025

- 43 students and 3 teachers from MCC Public School, Chetpet joined an outreach programme.

September 24, 2025

- Open Innovative Idea Competition (OI²C), was organized for 90 students and 9 teachers from 15 nearby schools.

September 25, 2025

- As a part of CSIR Foundation Day, 108 students and 5 teachers from Indian Public School (TIPS) visited the lab.

September 26, 2025

- Outreach programme was conducted for 150 students and 10 teachers from schools in and around Chennai.

CSIR-CSMCRI, Bhavnagar

September 1-2, 2025

- Teacher training programme was conducted for 66 teachers from 59 different schools in and around Bhavnagar.

September 4, 2025

- Webinar was conducted for 797 students and 57 teachers from 18 different schools from Bhavnagar and nearby cities.

September 5, 2025

- 150 students and 5 teachers from 5 different schools were invited for a field visit.

Jigyasa Monthly Highlights

CSIR-NBRI, Lucknow

September 02-03, 2025

- Scientists interacted with 427 students and 15 teachers at the Eklavya Model Residential School, Chhattisgarh.

September 09, 2025

- Outreach programme was conducted for 428 students and 19 teachers from Kendriya Vidyalaya, NTPC Shakti Nagar.

September 10, 2025

- Jigyasa Programme was conducted for 460 students and 19 teachers at Kendriya Vidyalaya, NTPC Rihand Nagar.

September 11, 2025

- Student scientist connect program was conducted for 189 students and 9 teachers at PM Shri Kendriya Vidyalaya, Chopan.

September 23, 2025

- Lab visit was organized for 63 students and 5 teachers of PM Shri Kendriya Vidyalaya, Mau.

September 26, 2025

- On the occasion of CSIR Foundation Day, 1265 students and 66 teachers from 30 different schools visited the lab.

Jigyasa Monthly Highlights

CSIR-CCMB, Hyderabad

September 26, 2025

- An Open day programme was conducted for 2001 students and 136 teachers from more than 100 schools from Hyderabad and nearby towns including in adjoining states.

CSIR-NIO, Goa

September 26, 2025

- On the occasion of CSIR Foundation Day, 650 students and 25 teachers from 15 different schools visited the lab and interacted with scientists.

CSIR-SERC, Chennai

September 26, 2025

- Outreach activity was carried out for 175 students and 8 teachers from 3 different schools.

Jigyasa Monthly Highlights

CSIR-IMMT, Bhubaneswar

September 01, 2025

- Student scientist programme was conducted for 159 students and 7 teachers from Royal Public School and Mothers Public School.

September 02, 2025

- 91 students and 4 teachers from Utkal International School, Cuttack visited the lab.

September 03, 2025

- Jigyasa programme was organized for 141 students and 7 teachers from Odisha Adarsha Vidyalaya, Kusumi, and Govt. UP School, RRL Colony.

September 16, 2025

- On the occasion of World Ozone Day 2025 scientists interacted with 100 students and 4 teachers at the Regional Science Centre.

September 26, 2025

- Open day programme was carried out for 12 students and 1 teacher from 3 different schools.

Jigyasa Monthly Highlights

CSIR-IHBT, Palampur

September 18, 2025

- 100 students and 4 teachers from Mother's Touch School, visited the lab and interacted with scientists.

September 19, 2025

- Outreach Programme was conducted for 95 students and 5 teachers from PM Shri Govt. Sr.Sec. School.

September 22, 2025

- Student scientist interaction programme was carried out at Govt. Sr. Sec. School Chandpur for 50 students and 12 teachers.

September 24, 2025

- 86 students and 5 teachers from SPM Shri Govt. Sr. Sec. School were invited for a field visit.

September 26, 2025

- An open day programme was organized for 93 students and 15 teachers at PM Shri Kendriya Vidyalaya, No.2 AFS Chakeri.

September 29, 2025

- Jigyasa programme was arranged for 80 students from Shaheed Major Sudhir Kumar Walia Govt. Senior Secondary School.

Jigyasa Lab Spotlight

CSIR-Structural Engineering Research Centre (CSIR-SERC), Chennai

CSIR-SERC was established in the year 1965 at the CSIR Taramani Campus in Madras now Chennai, the capital city of Tamil Nadu State. CSIR-SERC has developed state-of-the-art facilities and expertise for the analysis, design, and testing of structural components. Its services are widely utilized by central and state governments, as well as by organizations in both the public and private sectors. The scientists actively contribute to numerous national and international committees, and the Centre is recognized globally as a leading research institution in the field of structural engineering.

CSIR-SERC research and development activities are organized around four primary thrust areas of Structural Health Monitoring and Life extension, Disaster mitigation, Advanced Material for Sustainable Structures and Special Multi-Functional Structures with Energy Infrastructure and offshore structures. The center possesses expertise in a wide range of domains, including: computational structural mechanics, bridge engineering, fatigue and fracture, Health Assessment Using Guided Wave Propagation, Nano Mechanics and Engineering, Risk and Reliability, Shock and vibration, Steel Structures, Structural Concrete Engineering, Structural Dynamics and Engineering, Strucutral Health Monitoring, Sustainable material and Composites and Wind Engineering.

CSIR-SERC encourages expertise in the design and construction of all kinds of structures and serves as an index for the most recent information. It conducts research that is focused on applications in every aspect of structural engineering. For the benefit of practicing engineers, It offers specialized structural engineering courses that introduce them to the most recent advancements in analysis, design, and construction.

Upcoming Jigyasa Activities
Jigyasa Aero Fest 2025 (22-24 December)

About Aero Fest 2025

The Jigyasa-Aero Fest, a Three-day national event, will be organized by Jigyasa, CSIR-National Aerospace Laboratories, Bangalore-17. It is a fest to acquire knowledge in the aerospace field for the students & it ignites the students ideas to design, develop & prepare the project report on “The Sky Without Limits: UAVs Empowering Modern Aviation”. This event aims to create scientific temper among the school students of classes 9-12 all over India to take up aerospace science as their career. It is planned to conduct this event every year in the third week of December at CSIR-NAL. This event includes a one-day science tour, Project report, General knowledge quiz, Aero quiz, Collage making, Cultural, Project presentation, and aeromodelling in the individual, team, and group categories.

Upcoming Jigyasa Activities
Jigyasa Aero Fest 2025 (22-24 December)

Instructions

A team of 3 students from classes 9-12 can participate as a group. Each team should submit Project Report on **"The Sky Without Limits: UAVs Empowering Modern Aviation".** The report should cover various aspects about UAVs and it's civilian applications. The report's length should be less than 25 pages, and the similarity check should be less than 15%. The project report should reach the Convener by 03 Nov. 2025 before 10AM through the nomination form link. Based on the reports, a panel of three subject experts will select the best 20 teams from all over India. These best teams will participate in a 3-day 'Jigyasa-Aero Fest' in Bangalore from 22-24 December 2025. You may contact the convener for any queries.

E-mail: jigyasanal@gmail.com

Theme

The theme "The Sky Without Limits: UAVs Empowering Modern Aviation" aims to inspire students to explore how Unmanned Aerial Vehicles (UAVs) are revolutionizing the aviation industry. The team has to delve into the innovative applications of drones in civil aviation, including aerial mapping, emergency response, logistics, environmental monitoring, and airspace management. Encouraging students to think about creativity and technology working together in aviation, the event highlights how UAVs are breaking traditional boundaries to enhance safety, efficiency, and sustainability in the skies. This presentation should explore how these intelligent flying systems are shaping a limitless and innovative future for modern aviation.

Nomination form link: https://forms.gle/FNbXj9Nz3QBdob3q7
or Scan QR code

Important Days

Deadline for project report submission: 03 Nov. 2025 before 10:00AM
Announcement of selected teams: 04 Nov. 2025 by 05:00PM
Jigyasa -AeroFest: 22-24 Dec. 2025

Venue
CSIR-National Aerospace Laboratories
PB No. 1779, Banglore-17

Address for Communication
Dr. VPS Naidu, Nodal Officer, Jigyasa
CSIR-National Aerospace Laboratories
PB No.1779, Bangalore-17
E-mail: jigyasanal@gmail.com
Phone: +91 9449019458, 080-2251 4121

CSIR's Jigyasa in Media

Dr Jitendra Singh launches India's first Virtual Science Lab for Children under CSIR Jigyasa Programme

Integrity Education, Delhi 23, Nov 2021

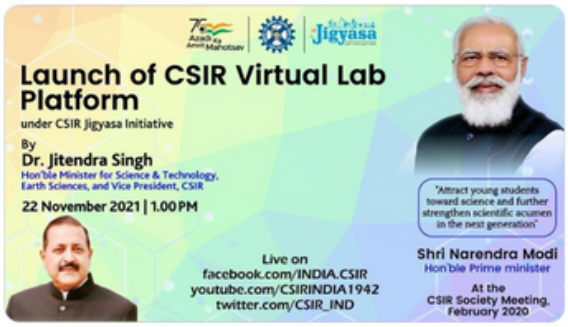
Science and Technology Minister Dr. Jitendra Singh has launched India's first Virtual Science Lab for Children under CSIR Jigyasa Programme, which will also connect students with scientists across the country. Speaking on the occasion, Dr Singh said, the main aim of the Virtual Lab is to provide quality research exposure and innovative pedagogy for school students based on an online interactive medium. He said, the new facility will immensely benefit students from Kendriya Vidyalayas, Navodaya Vidyalayas and Government Schools and will help in catching them young.

The Minister said, the target audience for the Virtual Lab platform is students of the Standard six to 12 who would like to explore science using different activities, experienced researchers and faculties on the subjects of Science, Mathematics, Biology and IT. He said, initially the content will be available in English, but has been planned to be made available in Hindi and other regional languages. Dr Singh said, the Virtual Lab will provide a virtual tour of CSIR laboratories and expose students to research infrastructure.

Sources : **News On Air**

CSIR, India
@CSIR_IND

Join us at the launch by Hon'ble Minister of S&T @DrJitendraSingh the CSIR Virtual Lab under @CsirJigyasa that is aimed at connecting school students to scientists & science through games, animation etc & make learning exciting @shekhar_mande



Ministry of Science & Technology

Azadi Ka Amrit Mahotsav

Union Minister Dr Jitendra Singh calls for searching, mentoring and sustaining Innovation Start-Ups, emphasises on creating a Start-Up ecosystem based on Science and Technology:

The Minister announces the winners of CSIR organised National Level Scientific Creativity Competition "CSIR Jigyasa Vigyan Mahotsav 2022"

CSIR Jigyasa programme being implemented from 2017 have benefitted more than 4 lakh students across the country: Dr Jitendra Singh

Posted On: 26 FEB 2022 11:21AM by PIB Delhi

Union Minister of State (Independent Charge) Science & Technology; Minister of State (Independent Charge) Earth Sciences; MoS PMO; Personnel, Public Grievances, Pensions, Atomic Energy and Space, Dr Jitendra Singh today called for searching, mentoring and sustaining Innovation Start-Ups and emphasised on creating a Start-Up ecosystem based on Science and Technology.

The Minister was speaking after announcing the winners of CSIR organised National Level Scientific Creativity Competition "CSIR Jigyasa Vigyan Mahotsav 2022" to celebrate India's 75 years of Independence as Azadi Ka Amrit Mahotsav.

The Statesman

Tuesday, 28 October, 2025

HOME INDIA WORLD BUSINESS SPORTS ENTERTAINMENT OPINION LAW LIFESTYLE DAINIK STATESMAN MORE ▾ EPAPER ▾

India

Jitendra Singh exhorts youth to 'stay curious, stay bold'

Hailing the aspirational surge in youngsters, Union Minister Jitendra Singh said that the aspirations of India's youth must be met with 3 "A"—Awareness, Aptitude and Avenue.

Photo: SNS

CSIR News

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One Day as a Scientist Week (21 to 25 July 2025) across CSIR Labs under its Jigyasa Programme

Hon'ble Dr Jitendra Singh hails the aspirational surge in youngsters, rise in student aspirations, calls for focus on 3 "A"... Awareness, Aptitude and Avenue in Education

Hailing the aspirational surge in youngsters, Hon'ble Union Minister Dr Jitendra Singh has said that the aspirations of India's youth must be met with 3 "A" – Awareness, Aptitude and Avenue.

The Minister underscored the need to channel the scientific enthusiasm among school students into sustained growth opportunities.

Speaking at the celebrations of the CSIR Jigyasa programme's "One Day

CSIR News August 2025 141

Dr Jitendra Singh
25 July ·

Amazing clarity, confidence and concept with which the Gen Z puts across its point of view.

Interaction with school children participating in "One Day as a Scientist" event, organised as a part of #CSIR #Jigyasa, ended up in a "pleasant" rebound...at the end of the day, it was the elders who went home educated and tutored by these young bright kids...the little tall torchbearers of ViksitBharat@2047 envisaged by PM Narendra Modi.

Tuesday, October 28, 2025

VIEWS TODAY NEWS

HOME JAMMU KASHMIR NATIO

Home › Education › Minister Proposes 'One Day as Teacher' to Deepen Scientific Engagement

Minister Proposes 'One Day as Teacher' to Deepen Scientific Engagement

Dr. Jitendra Singh

CSIR's Jigyasa in Media

CSIR Marks 84th Foundation Day with grand open day

The Council of Scientific & Industrial Research (CSIR) celebrated its 84th Foundation Day with an enthusiastic Open Day on Sep.26, at its Taramani Campus. The event, organised by the CSIR-Structural Engineering Research Centre (CSIR-SERC) and the CSIR Madras Complex, opened the doors of several key laboratories, including regional units of CSIR-CECRI, CSIR-CEERI, CSIR-CSIO, CSIR-NEERI, and CSIR-NML, as well as the TTRS (Tower Testing and Research Station) facility in Tirusulam.

The Open Day attracted over 9,700 participants, including a diverse audience of school and college students, teachers, industry professionals, and the general public. Visitors were allowed to witness demonstrations of state-of-the-art facilities, technologies, and products developed by CSIR. The event fostered a vibrant exchange, giving the public a first-hand view of the wide-ranging, multi-disciplinary research programs underway at the national laboratories.

कन्या एकलव्य आदर्श आवासीय विद्यालय शिवपुर, बतौली,सरगुजा में जिज्ञासा कार्यक्रम का हुआ आयोजन

Chhattisgarhiya News · September 13, 2025 · 3:02 pm · No Comments

Student scientist connect programme

Special Service and Features

Azadi Ka Amrit Mahotsav

CSIR Celebrates 84th Foundation Day with Open Day in Chennai

Posted On: 26 SEP 2025 3:59PM by PIB Chennai

The 84th foundation day of the Council of Scientific & Industrial Research (CSIR), New Delhi, an autonomous organization under Ministry of Science & Technology, Govt. of India, was celebrated with great enthusiasm on 26 September 2025, at the CSIR Campus in Taramani, Chennai by CSIR-Structural Engineering Research Centre (CSIR-SERC) and CSIR Madras Complex (CMC).

CSIR-CMERI Durgapur
14 September

On 11th September 2025, CSIR-CMERI organised a Jigyasa outreach programme at Eklavya Model Residential School, Rikhi, Udaipur, Chhattisgarh. The programme included a lecture on "Energy Conversion" followed by demonstrations of the e-tiller and the mechanised septic cleaning machine. Additionally, students took part in hands-on training sessions using DIY kits such as the Stirling Engine, Wind Mill, and Physics Kits. In total, 120 students and 8 teachers enthusiastically participated in the event.

#84YearsofCSIR

CSIR, India CSIR-Integrated Skill Initiative Csir-cmeri Skill

CSIR-CMERI
@CSIR_CMERI

On 13th September 2025, CSIR-CMERI organized a Jigyasa Outreach Programme at Eklavya Model Residential School, Mainpat, Chhattisgarh. A total of 142 students and 5 teachers enthusiastically participated in the programme.

#84YearsofCSIR

CSIR's Jigyasa in Media

CSIR's Jigyasa in Media

CSIR-Institute of Himalayan Bioresource Technology
@CSIR_IHBT

Under CSIR-Jigyasa program, 100 students of class 3rd to 5th accompanied by 4 teachers from Mother's Touch School, Palampur visited the Floriculture fields and Bamboo Museum of the Institute today. @CsirJigyasa

CSIR-AMPRI Bhopal
@csirampribhopal

CSIR-AMPRI, Bhopal, organized a popular lecture, lab visit & student-scientist interaction on Sept 18, 2025, for PM SHRI KV, Katni, under Jigyasa. Students visited the various laboratories/facilities of AMPRI and interacted with scientists.
@CSIR_IND @CSIR_NIScPR @PIB_India

CSIR-CMERI Durgapur
19 September

On 15th Sept 2025, CSIR-CMERI organized a Jigyasa Outreach Programme at Eklavya Model Residential School, Lundra, Sarguja (Chhattisgarh) to ignite scientific curiosity among young minds. Students explored Energy Conversion through an interactive lecture, witnessed live demos of the E-Tiller & Mechanized Septic Cleaning Machine, and engaged in hands-on activities with DIY kits like the Stirling Engine, Windmill & Physics Kits. With 190 students & 5 teachers participating enthusiastically, the event turned into a vibrant platform for learning by doing.
CSIR, India CSIR-Integrated Skill Initiative Csir-cmeri Skill CSIRJIGYASA

CSIR-CMERI Durgapur
20 September

On 16th Sept 2025, CSIR-CMERI conducted a Jigyasa Outreach Programme at Eklavya Model Residential School, Petla, Sitapur (Sarguja, Chhattisgarh) to ignite curiosity and promote scientific learning. Students explored the world of Energy Conversion through an interactive lecture, witnessed live demos of the E-Tiller & Mechanized Septic Cleaning Machine, and engaged in exciting DIY activities with kits like the Stirling Engine & Windmill.
With the active participation of 207 students & 17 teachers, the programme turned into a vibrant celebration of science, innovation, and hands-on learning.
CSIR, India CSIRJIGYASA
#84yearsofcsir

CSIR's Jigyasa in Media

CSIR-Institute of Himalayan Bioresource Technology
@CSIR_IHBT

On 19.09.2025, 95 students and 5 teachers from PM SHRI Govt. Sr. Sec. School, Bir, Distt. Kangra (H.P.) visited the Institute under CSIR-Jigyasa Programme. @CSIR_IND @DrSudeshKumarY1 @CsirJigyasa

CSIO JIGYASA
22 September

On 19th September 2025, CSIR-CSIO had the honor of hosting the Parliamentary Standing Committee on Science & Technology, Environment, Forests and Climate change for a special exhibition showcasing cutting-edge scientific innovations and research excellence.

Under the inspiring umbrella of JIGYASA – Student-Scientist Connect, the exhibition welcomed over 100 enthusiastic students from ISTC, neighboring schools, and CSIR-CSIO staff ward. From curious minds to future changemakers, the energy was electric as students explored interactive exhibits, engaged with scientists, and got a firsthand look at the marvels of modern science. It was more than just a visit—it was a celebration of curiosity, learning, and the spirit of scientific inquiry.

A heartfelt thank you to all the organizers, volunteers, and educators who made this day unforgettable. Here's to nurturing the next generation of innovators!

#CSIR #CSIR-Central Scientific Instruments Organisation, Chandigarh, India #csirjigyasa

CSIR - Institute of Himalayan Bioresource Technology, Palampur
22 September

A training cum workshop on waste management was conducted under "Swachhata Hi Seva-2025" and "CSIR-Jigyasa Programme" at Govt. Sr. Sec. School Chandpur, Palampur (Distt. Kangra, H.P.) on September 22, 2025. In this activity, 50 students and 12 teachers were made aware about management of different wastes including usage of biodegradable/ environment friendly materials and waste to wealth. The event showcased the Institution's product and ongoing R&D activities on waste management. #84yearsofcsir #WasteToWealth #SwachhataHiSeva2025 #SwachhBharat CSIR, India Sudesh Kumar Yadav PMO India

CSIO JIGYASA
23 September

On September 23, 2025, CSIR-Central Scientific Instruments Organisation (CSIR-CSIO) under the inspiring umbrella of JIGYASA hosted a Quiz Contest as part of the celebrations for CSIR Foundation Day - 2025. The event took place at the ISTC Auditorium, CSIR-CSIO, Chandigarh, and was attended by around 200 students from ISTC and CSIO staff.

The quiz was a great success, bringing together a vibrant mix of knowledge, science, and enthusiasm. From challenging questions to interactive discussions, participants showcased their brilliance and scientific curiosity!

Thank you to everyone who took part and made this event a memorable experience! Let's continue to foster scientific temper and innovation.

#csirjigyasa #CSIR

CSIR's Jigyasa in Media

CSIR-Institute of Himalayan Bioresource Technology
@CSIR_IHBT

Under the CSIR-Jigyasa Programme, 86 students, accompanied by 5 teachers from the PM SHRI Govt. Sr. Sec. School, Bir, Distt. Kangra (H.P.) visited the Institute on 24.09.2025. #84yearsofcsir @CSIR_IND @CsirJigyasa @DrSudeshKumarY1

CSIR-NAL
@CSIRNALOFFICIAL

Young artists in action! School students enthusiastically participated in the "Swachchata for Sustainable Future" drawing competition at CSIR-NAL as part of #SwachhataHiSeva. Let's nurture their creativity for a cleaner & greener India! #SwachhBharat #CleanIndia #GreenIndia

CSIR-Central Leather Research Institute
24 September

As a part of 84th CSIR foundation day celebrations, under Jigyasa 2.0, CSIR-CLRI organised "Open Innovative Idea Competition" for the school students from VI-XII std. From 75 entries, 25 entries from about 15 different schools were shortlisted for presentation. The students presented their prototypes/ideas to the Experts from University of Madras, Anna University, and D G Vaishnav College and they also interacted with the scientists and research scholars of CSIR-CLRI. Many out of box ideas were presented by the students. Students were very enthusiastic to present their ideas and demos to judges, scientists, and scholars.

@top fans Kalarical Janardhanan Sreeram CSIR, India #84YearsofCSIR

CSIR NISCPR-Official Page CSIRJIGYASA

CSIR-NAL
@CSIRNALOFFICIAL

Young minds learning to make a difference! School students actively participated in the Scientific Waste Segregation Workshop at CSIR-NAL as part of #SwachhataHiSeva. Empowering the next generation for a cleaner & sustainable future! #SwachhBharat #CleanIndia #GreenIndia

CSIR's Jigyasa in Media

CSIR-CDRI
@CSIR_CDRI

Glimpses of #OpenDay at @CSIR_CDRI
#Lucknow on the occasion of 84th #CSIRFoundationDay

@CSIR_IND @IndiaDST @ANRFIndia @DrJitendraSingh @CSIR_NIScPR
@CsirJigyasa @PIB_India @DDNewslive

CSIR-CEERI
@CSIRCEERI

Such outreach efforts reflect CSIR-CEERI's commitment to nurturing the next generation of innovators and contributing to the national skilling and knowledge ecosystem. @DrJitendraSingh, @CSIR_IND

Special Service and Features

Azadi Ka Amrit Mahotsav

CSIR Celebrates 84th Foundation Day with Open Day in Chennai

Posted On: 26 SEP 2025 3:59PM by PIB Chennai

The 84th foundation day of the Council of Scientific & Industrial Research (CSIR), New Delhi, an autonomous organization under Ministry of Science & Technology, Govt. of India, was celebrated with great enthusiasm on 26 September 2025, at the CSIR Campus in Taramani, Chennai by CSIR-Structural Engineering Research Centre (CSIR-SERC) and CSIR Madras Complex (CMC).

CSIR-Structural Engineering Research Centre
26 September

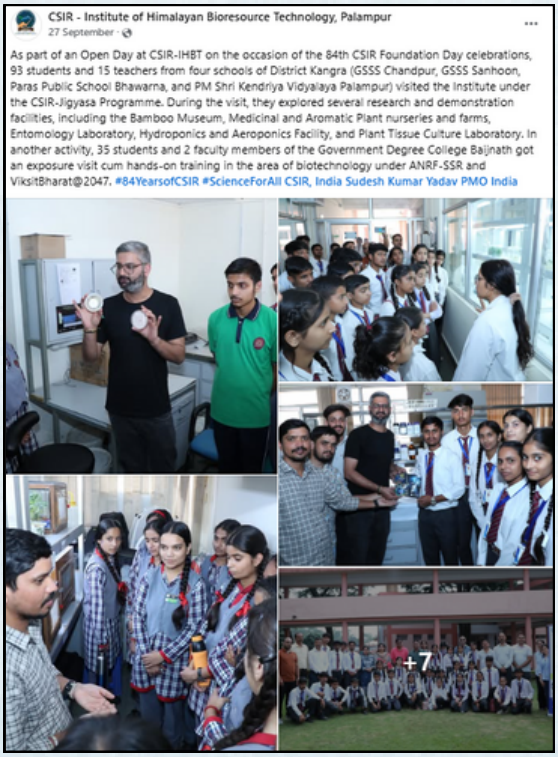
CSIR-IIIM
@csiriiim

As part of the 84th #CSIR #FoundationDay celebrations, CSIR-IIIM Jammu organized #OpenDay at Jammu & Srinagar labs. Over 800 students explored our R&D facilities, interacted with scientists & attended sessions on startups and Vidyarthi Vigyan Manthan.

Empowering Science, Enriching Society.

#CSIRFoundationDay #CSIRIIIMJammu #OpenDay #ScienceForSociety #Innovation

CSIR's Jigyasa in Media



CSIR's Jigyasa in Media

CSIR-CDRI
@CSIR_CDRI

Under the #Student_Scientist_Connect program of @CsirJigyasa, 50 girl students and 5 faculty members from #BirlaBalikaVidyalaya, #Pilani, #Rajasthan visited @CSIR_CDRI.
@CSIR_IND @ANRFIndia @IndiaDST @CSIR_NIScPR

CSIR-NAL
@CSIRNALOFFICIAL

Exciting time for young minds! CSIR-NAL hosted an 'Electronics Unplugged' workshop under the Jigyasa program, sparking curiosity & innovation among students. Hands-on experiments & scientist interactions ignited scientific temper & creativity! #Jigyasa #CSIRNAL #STEMeducation

CSIR-Institute of Himalayan Bioresource Technology
@CSIR_IHBT

A Lecture and interactive session on waste management was conducted under Swachhata Hi
Seva-2025, in collaboration with CSIR-Jigyasa and
National Mission on Himalayan Studies at Shaheed Major Sudhir Kumar Walia Govt. Senior Secondary School, Banuri, Palampur (H.P.)
@CSIR_IND

THE CURIOUS CORNER

From stone to steel, I test them all, To make sure structures never fall. Quakes may shake and winds may blow, But I ensure the strength below. With CSIR-SERC leading the way, What do we achieve at the end of the day?

I am heavy, silent, and shaped with care, Found in mountains, yet placed with flair. In castles or paths, I've long been known What am I?

I'm shaped by hands, but born from earth, Fired with heat to prove my worth. Stacked with care, I help things grow — A single part, but strength I show. What am I?

I am made of materials. I stand tall to protect you from sun, rain, and cold, offering safety and shelter every day. but as time passes i need care to make you safe?

Answers will be shared in the next months Newsletter

THE CURIOUS CORNER

Which of these is a main ingredient in concrete?

A. Sugar
B. Sand
C. Cotton
D. Rubber

Why is water important in making concrete?

A. To make it colorful
B. To help it dry faster
C. To activate the cement and make it stick together
D. To clean it

How long does concrete usually take to fully harden (cure)?

A. 1 Hour
B. 1 Day
C. 28 Days
D. 1 Year

Why do we use concrete in construction?

A. It is colorful
B. It is Soft
C. It is strong and durable
D. It is easy to eat

What two main elements are used to make steel?

A. Water and sand
B. Iron and Carbon
C. Wood and glue
D. Plastic and rubber

Answers will be shared in the next months Newsletter

THE CURIOUS CORNER

What is the name of steel used inside concrete to make it stronger?

A. Magic Steel
B. Reinforcement bar (Rebar)
C. Steel glue
D. Super pod

What makes stainless steel different from regular steel?

A. It is soft
B. It rusts easily
C. It doesn't rust easily
D. It is made of wood

Why is steel stronger than iron alone?

A. It is mixed with sugar
B. It is heavier
C. It is mixed with carbon to improve strength
D. It is frozen

Which of these is a renewable energy source?

A. Coal
B. Oil
C. Solar energy
D. Natural gas

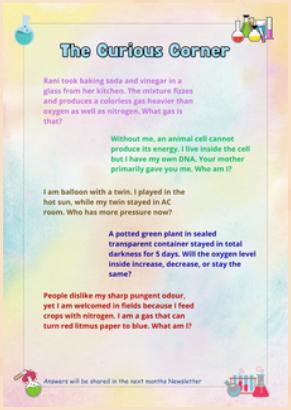
What two main elements are used to make steel?

A. Cooking
B. Recycling
C. Water treatment
D. Evaporation

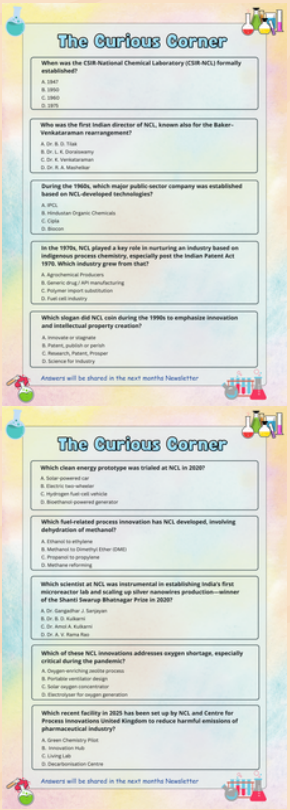
Answers will be shared in the next months Newsletter

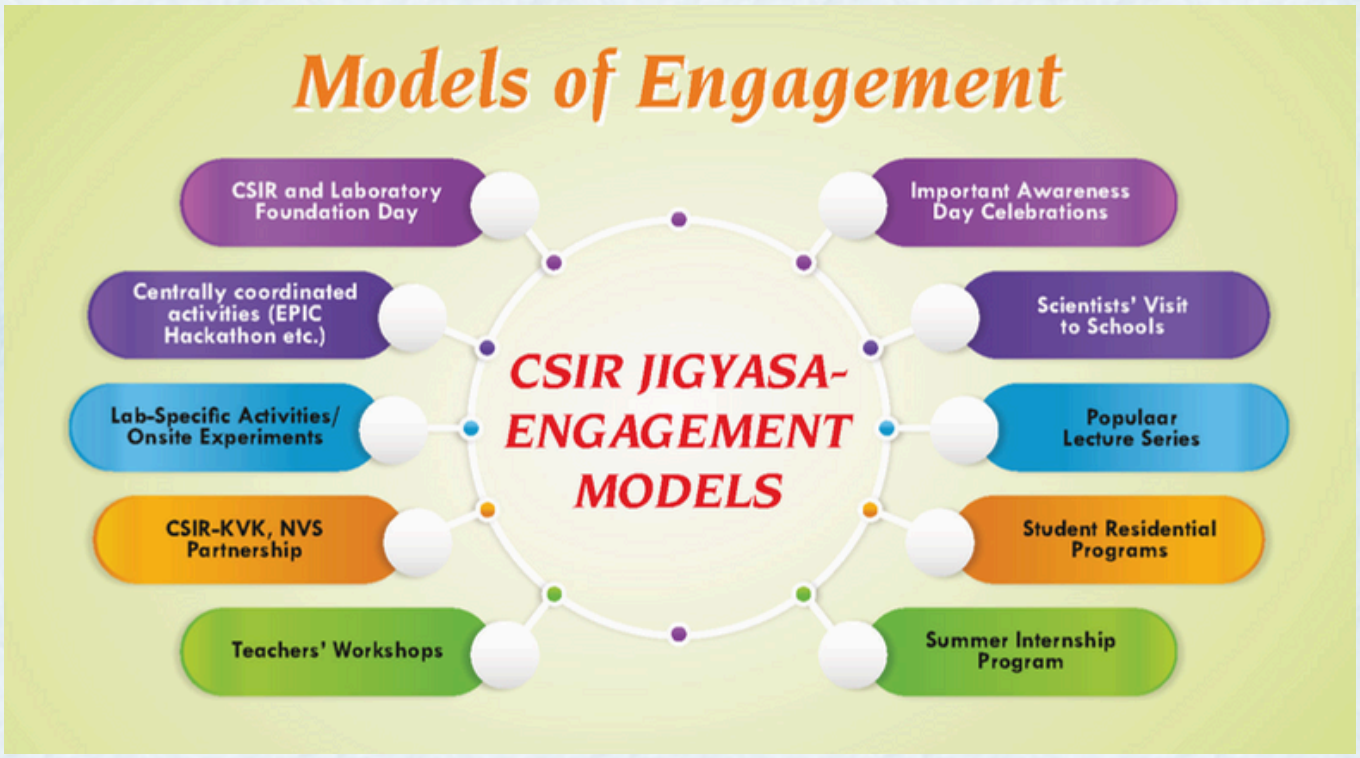
Answer to previous month's quiz

1. The gas is carbon dioxide (CO_2)
2. Mitochondrion
3. The balloon in the hot sun.
4. Decrease
5. Ammonia (NH3)



1. B. 1950
2. C. Dr. K. Venkataraman
3. B. Hindustan Organic Chemicals
4. B. Generic drug/API manufacturing
5. B. Patent, publish or perish
6. C. Hydrogen fuel-cell vehicle
7. B. Methanol to Dimethyl Ether (DME)
8. C. Dr. Amol A. Kulkarni
9. A. Oxygen-enriching zeolite process
10. C. Living Lab





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