



KAMARAJ IAS ACADEMY
Only IAS Academy by Grandson of "Perunthalaivar Kamarajar"

CSIR-Central Mechanical Engineering Research Institute

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Why is in news? CSIR-Central Mechanical Engineering Research Institute (CMERI) celebrated its 66th Foundation Day

In India, mechanical engineering technology has accounted for nearly half of the total technology imported. In terms of products, nearly one third of the value of total imports is for mechanical engineering equipment.

In order to **develop indigenously mechanical engineering technology for the industries** so that R&D can play a key role in self-reliance, the Central Mechanical Engineering Research Institute at **Durgapur, West Bengal** was established in **February 1958** with the specific task of development of mechanical engineering technology.

The Central Mechanical Engineering Research Institute (CMERI) is the **apex R&D institute for mechanical engineering under the aegis of the Council of Scientific and Industrial Research (CSIR)**.

Being the **only national level research institute** in this field, CMERI's mandate is to serve industry and develop mechanical engineering technology so that India's dependence on foreign collaboration is substantially reduced in strategic and economy sectors.

Besides, the institute is facilitating innovations and inventions for establishing the claims of Indian talent in international fields where Indian products shall ultimately compete.

In the new millennium, CMERI is poised to expand its horizon of research activities so as to steer the country forward in cutting-edge and sunrise fields.

Vision: To be a global R&D institute having confidence of industries and visibility to society in mechanical engineering sciences and technologies.

Mission: To research and develop cost effective and value added technologies in mechanical engineering and allied domains. Contribute significantly to national skill development initiatives for sustainable empowerment.

Council of Scientific & Industrial Research:

The Council of Scientific & Industrial Research (CSIR), known for its **cutting edge R&D knowledge base in diverse S&T areas**, is a contemporary R&D organization.

CSIR has a dynamic network of 37 national laboratories, 39 outreach centres, 1 Innovation Complexes, and three units with a pan-India presence.

CSIR's R&D expertise and experience are embodied in about 3521 active Scientists supported by about 4162 technical and support personnel as of 31st March 2022.

CSIR covers a **wide spectrum of science and technology** – from oceanography, geophysics, chemicals, drugs, genomics, biotechnology and nanotechnology to mining, aeronautics, instrumentation, environmental engineering

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and information technology.

It provides significant technological intervention in many areas concerning societal efforts, which include environment, health, drinking water, food, housing, energy, farm and non-farm sectors. Further, CSIR's role in S&T human resource development is noteworthy.

Pioneer of India's intellectual property movement, CSIR today is strengthening its patent portfolio to carve out global niches for the country in select technology domains.

Amongst its peers in **publicly funded research organizations** globally, CSIR is a leader in filing and securing patents worldwide.

CSIR has operationalized desired mechanisms to boost entrepreneurship, which could lead to enhanced creation and commercialization of radical and disruptive innovations, underpinning the development of new economic sectors.

CSIR envisages a **vision of CSIR@2030** as to "Enhance quality of life of the citizens of India through innovative Science and Technology, globally competitive R&D, by developing sustainable solutions and capacity building to fulfil dream of Atmanirbhar Bharat". This vision of CSIR is aligned to the Government of India's vision for the next 25 years 'Amrit Kal' when independent India becomes 100 years old.

CSIR is **ranked 37th among 1587 government institutions worldwide** and is the **only Indian organization among the top 100 global government institutions**, according to the **Scimago Institutions Ranking World Report 2021**. CSIR holds **the 7th rank in Asia** and leads the country at the first position.