

# Central Electronics Engineering Research Institute (CEERI)

**Central Electronics Engineering Research Institute (CEERI)** is one of India's leading research institutions in the field of electronics and engineering. Located in Pilani, Rajasthan, CEERI was established in 1953 and functions under the Council of Scientific and Industrial Research (CSIR). The institute plays an important role in strengthening India's capabilities in electronics, information technology, and advanced engineering.

CEERI focuses on research that connects basic science with real-world applications. Its work covers a wide range of areas such as electronic systems, sensors, communication technologies, semiconductor devices, robotics, and embedded systems. These technologies form the backbone of modern life, from mobile phones and computers to satellites, medical equipment, and smart infrastructure.

One of CEERI's major contributions is in the area of **electronics and sensor technologies**. The institute develops sensors that can measure temperature, pressure, gas levels, and other physical conditions. Such sensors are used in industries, healthcare, environmental monitoring, and defense. CEERI has also made significant progress in developing indigenous electronic systems, reducing dependence on imported technologies.

CEERI is actively involved in **digital and smart technologies**. Research at the institute supports areas such as the Internet of Things (IoT), artificial intelligence-enabled systems, and smart devices.

These innovations help improve efficiency in sectors like agriculture, manufacturing, transportation, and urban planning. By working on such technologies, CEERI contributes to building a smarter and more connected India.

Another important area of CEERI's work is **national and strategic projects**. The institute collaborates with government departments, public sector units, and industries to design and develop technologies needed for national development. This includes work in defense electronics, space-related systems, and secure communication technologies.

Education and skill development are central to CEERI's mission. The institute provides training to students, engineers, and scientists through internships, workshops, and research programs. School and college students often visit CEERI to explore laboratories and interact with researchers, which helps spark interest in science and engineering careers.

