1. **The Council of Scientific and Industrial Research (CSIR), 1942**

autonomous body = the **largest** research and development organisation in India. Ranked 1st (research centers in India), and 210 in world.

38 laboratories/institutes, 39 outreach centers, 3 Innovation Centers and 5 units throughout the nation, with a collective staff of over 14,000,

* 3987 scientists, and 6454 technical and support personnel
* mainly funded by the Ministry of Science and Technology, but it operates as an autonomous body through the Societies Registration Act, 1860.

The research and development activities of CSIR include :

* aerospace engineering,
* structural engineering,
* ocean sciences,
* life sciences,
* metallurgy,
* chemicals,
* mining,
* food,
* petroleum,
* leather,
* environmental science.

In terms of Intellectual property, CSIR has 2971 patents in force internationally and 1592 patents in force in India.

CSIR has developed > 1,376 technologies/knowledgebase during the last decade of the 20th century.

**NML, (Jamshedpur, Jharkhand)**

Mineral processing and engineering including characterization of ores, minerals and products, beneficiation of ores, minerals and recovery of values from industrial wastes, agglomeration of ore fines and concentrates, flotation and electro flotation, mechano-chemical activation of minerals; pyro, hydro and electro-metallurgical processes of metal extraction, gainful utilization of natural resources and solid waste management and metal casting and forming and alloy development.

NML has the largest creep testing facility in India and one of the largest in Asia. Its materials evaluation and characterization facilities compare with the best in the world. NML has strong presence in Magnetic materials, Rapidly solidified alloys, Surface Coatings, Metallic Foams, and many others. Advanced materials processing and post-processing carried out include Mechanochemical activation, Semi-solid processing, Biomimicry, Thermo-mechanical treatments, High Temperature Synthesis, Advanced Joining, Grain boundary engineering, High strain rate forming, and several other techniques.

1. **Banaras Hindu University (Varanasi)**

6 institutes, 14 faculties, and 140 departments

total student enrollment is 28000, coming from 48 countries

Institutes: Indian Institute of Technology (14 departments and 3 inter-disciplinary schools), Institute of Science (13 departments), Institute of Agricultural Sciences, Institute of Medical Sciences (one of the finest institutes in the country, produces some of the best physicians and results across the country; Medicine, Ayurveda and Dental Sciences), Institute of Environment & Sustainable Development, Institute of Management Studies.

Rankings: Internationally, BHU was ranked 801-1000 in the QS World University Rankings of 2018.

The same rankings: 225 in Asia and 143 among BRICS nations

It was ranked 601-800 in the world by the Times Higher Education World University Rankings of 2018 and 194 in Asia

In India, the National Institutional Ranking Framework (NIRF) ranked it 9th overall in 2018, and 3rd among universities. It is 39th in the management ranking.

It's engineering institute, IIT (BHU), was ranked 19th by the NIRF Engineering ranking for 2018. In 2017, it was ranked 9th among engineering colleges in India by The Week.

The Institute of Medical Sciences was ranked 10th among medical colleges in India in 2017 by India Today, 6th by The Week, and 9th by Outlook India.

1. **Crescent University (Chennai)**

B.S. Abdur Rahman Crescent Institute of Science and technology is a renowned Quality Leadership Institution located at the greenest spot of Chennai near Tambaram (est. 1984).

48 programmes, grouped under 12 different Schools, 27 Undergraduate Programmes, 20 Postgraduate programmes, and Ph.D. (in all the departments)

Programmes: Civil Engineering, Mechanical Engineering, Electrical & Electronics Engineering, Electronics & Communication Engineering, Computer Science & Engineering, Electronics & Instrumentation Engineering, Information Technology, School of Life Sciences, Polymer Engineering, Automobile Engineering, Aerospace Engineering, Computer Applications, Mathematics & Actuarial Science, Management Studies, School of Arabic & Islamic Studies, Physics, Chemistry, English.

In the National Institutional Ranking Framework (NIRF), which is a Government of India initiative, the University was ranked at 54th rank at the all India level in the year 2016.

The ‘h’ index of the University is 32. The university has taken up many research projects with government and industrial funding. Currently 21 projects worth rupees 45.34 millions (INR) are being carried out.

The institution has maintained close interaction with industries like Ford