

PARLIAMENT QUESTION: ARTIFICIAL INTELLIGENCE, RESEARCH AND INNOVATION

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The Government of India has been promoting research and innovation in the fields of artificial intelligence, quantum technology, semiconductors, biotechnology and other emerging technologies through various schemes and mission mode programmes. The details of some of the major schemes/programme is as below:

S. No.	Scheme/Programme	Focus Area	Budget Outlay
	Research, Development and Innovation (RDI) Fund	Deep technologies including quantum computing, robotics and space; Artificial Intelligence; Biotechnology; Digital economy; Energy security and transition etc.	Rs. 1.0 lakh crore
	National Quantum Mission (NQM)	Quantum Computing, Quantum Communication, Quantum Sensing & Metrology, Quantum Materials & Devices	Rs. 6,003.65 crore
	National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS)	Artificial Intelligence, Quantum Technologies, Robotics, Cybersecurity and other emerging technologies	Rs. 3,660 crore
	Biotechnology Research and Innovation and Entrepreneurship Development (Bio-RIDE)	Biotechnology, Biomanufacturing and Biofoundry etc.	Rs. 9,197 crore
	India AI Mission	Artificial Intelligence	Rs. 10,371.92 crore

	India Semiconductor Mission	Semiconductor fabrication, packaging, design and semiconductor ecosystem	Rs. 76,000 crore
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Under NM-ICPS, 25 Technology Innovation Hubs (TIH) and under NQM 4 Technology Hubs (T-Hub) have been established across the country. Details are at Annexure.

As per the latest “Research and Development Statistics 2025-26” report, brought out by Department of Science and Technology (DST), the Gross Expenditure on Research and Development (GERD) as a percentage of GDP has increased from 0.64% in 2020-21 to 0.84% in 2023-24. In absolute terms, it has been consistently increasing over the years and more than tripled from Rs. 79,355.89 crore in 2013-14 to Rs. 2,44,767.81 crore in 2023-24. Further, the government is taking various steps to increase R&D expenditure, strengthen research infrastructure and retain scientific talent in the country. These include: successive increase in allocations for scientific departments; financial assistance to research institutions to carry out basic and applied research to strengthen research capacity, human resource development; and creation of state-of-the-art research infrastructure in the country. DST through schemes like Fund for Improvement of S&T Infrastructure (FIST), Promotion of University Research and Scientific Excellence (PURSE), Sophisticated Analytical Instrument Facilities (SAIF) and Sophisticated Analytical & Technical Help Institutes (SATHI) and Department of Biotechnology (DBT) through its Boost to University Interdisciplinary Life Science Departments for Education and Research (DBT-BUILDER) programme, supports research infrastructure in universities and institutions. The Government through various fellowships like National Post-Doctoral Fellowship (NPDF), Ramanujan Fellowship; INSPIRE Faculty Fellowship, Ramalingaswami Re-entry Fellowship, Biomedical Research Career Programme and MK Bhan-Young Researcher Fellowship is supporting young researchers and also attracting brilliant Indian researchers from abroad to return to India and conduct high quality research. Also, the VAIBHAV fellowship of DST provides a platform for overseas scientists including Non-Resident Indians to undertake collaborative research in Indian institutions and universities.

The Government continues to promote greater investment in research and development through enhanced public funding, increased private sector participation, philanthropic contributions and stronger industry-academia collaboration. The key initiatives towards this include the establishment of the Anusandhan National Research Foundation (ANRF), the creation of the Research Development and Innovation (RDI) Fund to catalyse private investment in research and innovation and supporting policy measures.

Annexure

Details of Technology Innovation Hub (TIH) under National Mission on Interdisciplinary Cyber-Physical Systems (NM-ICPS).

S.No.	Name of the TIH	Name of the Vertical	State
1	I-HUB for Robotics and Autonomous Systems Innovation Foundation, IISc Bengaluru	Robotics & AI Systems	Karnataka

S.No.	Name of the TIH	Name of the Vertical	State
2	IHUB NTIHAC Foundation, IIT Kanpur	Cybersecurity	Uttar Pradesh
3	IITI Drishti CPS Foundation , IIT Indore	Digital Healthcare	Madhya Pradesh
4	Technology Innovation in Exploration & Mining Foundation, IIT Dhanbad	Mining (Exploration to Beneficiation of Minerals)	Jharkhand
5	IIT Kharagpur AI4ICPS I-Hub Foundation, IIT Kharagpur	Artificial Intelligence and Machine Learning	West Bengal
6	TIH Foundation For IOT And IOE , IIT Bombay	Technologies for Internet of Things & Internet of Everything	Maharashtra
		BharatGen: A Suite of Generative AI Tech for India	
7	IIIT-H Data I-Hub Foundation, IIIT Hyderabad	Data Banks & Data Services, Data Analysis	Telangana
8	IHUB Drishti Foundation , IIT Jodhpur	Computer Vision, Augmented and virtual reality	Rajasthan
9	Divyasampark IHUB Roorkee for Devices Materials and Technology Foundation , IIT Roorkee	Device Technology and Materials	Uttarakhand
10	IIT Patna Vishlesan I-hub Foundation, IIT Patna	Speech, Video & Text Analytics	Bihar
11	IIT Madras Pravartak Technologies Foundation, IIT Madras	Sensors, Networking, Actuator & controls	Tamil Nadu
12	NMICPS Technology Innovation Hub on Autonomous Navigation Foundation (TiHAN), IIT Hyderabad	Autonomous Navigation and Data Acquisition systems (UAV, RoVetc)	Telangana
13	I-DAPT-HUB Foundation, IIT (BHU) Varanasi	Data Analytics & Predictive Technologies	Uttar Pradesh

S.No.	Name of the TIH	Name of the Vertical	State
14	IIT Guwahati Technology Innovation and Development Foundation, IIT Guwahati	Technologies for Under water exploration	Assam
15	IIT Mandi IHub and HCI Foundation , IIT Mandi	Human Computer Interaction	Himachal Pradesh
16	I-Hub Foundation for Cobotics (IHFC), IIT Delhi	Cobotics	Delhi
17	IIT Palakkad Technology Ihub Foundation, IIT Palakkad	Intelligent Collaborative Systems	Kerala
18	IIT Ropar Technology and Innovation Foundation, IIT Ropar	Technologies for Agriculture & Water	Punjab
19	IIITB Comet Foundation, IIIT Bengaluru	Advanced Communication System	Karnataka
20	BITS BioCYTiH Foundation , BITS Pilani	Bio-CPS	Rajasthan
21	IDEAS- Institute of Data Engineering, Analytics and Science Foundation, ISI Kolkata	Data Science, Big Data Analytics and Data curation etc	West Bengal
22	IHUB Anubhuti-IIITD Foundation , IIIT Delhi	Cognitive Computing & Social Censing	Delhi
23	I-Hub Quantum Technology Foundation, IISER Pune	Quantum Technologies	Maharashtra
24	IIT Tirupati Navavishkar I-Hub Foundation, IIT Tirupati	Positioning and Precision Technologies	Andhra Pradesh
25	IIT Bhilai Innovation and Technology Foundation, IIT Bhilai	Technologies for financial sector (Fintech)	Chhattisgarh

Details of Technology Hub (T-Hub) under National Quantum Mission (NQM)

S.No.	Name of the T-Hub	Name of the Vertical	State
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1	T-Hub at IISc. Bengaluru	Quantum Computing	Karnataka
2	T-Hub at IIT Madras	Quantum Communication	Tamil Nadu
3	T-Hub at IIT Bombay	Quantum Sensing & Metrology	Maharashtra
4	T-Hub at IIT Delhi	Quantum Materials & Devices	Delhi

This information was given by the Minister of State (Ind. Charge) Science & Technology; Earth Sciences and Minister of State PMO; Personnel, Public Grievances and Pensions; Department of Atomic Energy and Space Dr. Jitendra Singh in a written reply in Lok Sabha today.

NKR/FT

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