

1. MNIT Jaipur

- **Research Centers:**

MNIT hosts the **Center for Energy & Environment**, **Materials Research Center**, and **National Center for Disaster Mitigation & Management**, which address diverse challenges in renewable energy, materials science, and disaster management. These centers promote multidisciplinary approaches, engaging faculty and students in innovative solutions

- **Ongoing Research Projects:**

Projects funded by DST and DRDO focus on developing sustainable energy systems, improving urban infrastructure, and creating disaster-resilient models. Other projects address environmental conservation and smart grid technologies to reduce energy losses

- **Publications:**

Faculty and researchers frequently publish in renowned journals like *Springer* and *Elsevier*. Publications span engineering disciplines, emphasizing material composites, environmental engineering, and computational sciences .

- **Patents:**

MNIT has filed patents for renewable energy solutions, advanced sensor technologies, and smart urban planning tools. Many patents align with their focus on sustainability and green energy initiatives .

- **Innovation Lab:**

Equipped with cutting-edge facilities, the lab supports projects in IoT, robotics, and AI. Students and faculty work on developing prototypes and testing innovative solutions for real-world applications

- **Incubation Center:**

The **MNIT Innovation and Incubation Center** (MIIC) offers mentorship, funding, and resources for startups in IT, manufacturing, and green technology sectors. MIIC has incubated several successful ventures

- **Collaborative Projects:**

MNIT collaborates with organizations like ISRO, CSIR, and international universities. Joint projects include satellite communication, disaster risk reduction, and energy-efficient technologies .

2. BITS Pilani

- **Research Centers:**

The **Center for Robotics and Embedded Systems**, **Center for Water Resources**, and the **Pharmacy Research Center** are hubs of interdisciplinary innovation. These centers tackle challenges in automation, resource management, and bioengineering .

- **Ongoing Research Projects:**

BITS is engaged in government-funded projects on robotics in healthcare, sustainable agriculture, and computational drug design. Private collaborations support its work on IoT-based automation .

- **Publications:**

BITS researchers contribute extensively to leading journals like IEEE Transactions and *Nature Biotechnology*. The focus areas include AI, advanced robotics, and sustainable systems .

- **Patents:**

Patents in biotechnology (e.g., drug delivery systems) and automation solutions highlight BITS Pilani's innovative contributions. The institute also focuses on nanotechnology-enabled devices .

- **Innovation Lab:**

Labs equipped with state-of-the-art instruments drive projects in machine learning, healthcare, and manufacturing. These labs support interdisciplinary research and product development .

- **Incubation Center:**

The **BITS Technology Business Incubator** nurtures startups by offering seed funding, office space, and mentorship. Startups span sectors like healthcare, clean energy, and IT .

- **Collaborative Projects:**

Active partnerships with global universities in Europe and the US focus on AI-driven healthcare solutions, water resource management, and energy efficiency projects .

3. IIT Jodhpur

- **Research Centers:**

IIT Jodhpur boasts advanced centers, including the **Center for AI and IoT**, the **Data**

Sciences Lab, and the **Center for Smart Healthcare**. These centers integrate computational sciences with real-world problem-solving .

- **Ongoing Research Projects:**

Projects include AI for healthcare diagnostics, renewable energy systems, and climate adaptation models. Significant funding from DST and international organizations supports these initiatives .

- **Publications:**

Contributions to journals like IEEE, Elsevier, and *Springer Nature* reflect IIT Jodhpur's leadership in computational biology, green technology, and smart systems .

- **Patents:**

IIT Jodhpur excels in AI patents for diagnostic tools, energy-efficient technologies, and advanced sensors. Patents showcase the institution's focus on sustainable and scalable solutions .

- **Innovation Lab:**

The Smart Innovation Lab drives product development in AI, automation, and green energy systems. Students and researchers collaborate to create deployable technologies .

- **Incubation Center:**

The IITJ Incubation Center fosters entrepreneurship, offering seed funding and collaboration opportunities in AI, robotics, and IoT domains .

- **Collaborative Projects:**

Collaborations with institutions like MIT and Oxford involve interdisciplinary research in smart energy, healthcare innovations, and environmental sustainability .

4. University of Rajasthan, Jaipur

- **Research Centers:**

The university features centers such as the **Institute of Development Studies** and the **Center for Advanced Studies in Chemistry**. These cater to research in economics, social sciences, and environmental studies .

- **Ongoing Research Projects:**

Projects include studies on climate change impact on agriculture, regional biodiversity conservation, and urban infrastructure planning. Many of these projects are state-funded .

- **Publications:**
The university publishes extensively in journals like *Indian Journal of Environmental Sciences* and *Journal of Social Development Studies*. Most publications are related to humanities, natural sciences, and regional studies .
- **Patents:**
A smaller focus on patents, primarily in applied sciences such as environmental engineering and biochemistry .
- **Innovation Lab:**
Laboratories at the university are equipped for humanities-focused interdisciplinary studies, alongside experimental setups in physics and chemistry .
- **Incubation Center:**
Focused on nurturing small-scale social enterprises and sustainable local business models .
- **Collaborative Projects:**
Partnerships with UNESCO and local government organizations for cultural preservation and urban planning studies .

5. LNMIIT Jaipur

- **Research Centers:**
Includes the **Center for Data Analytics, Cybersecurity Labs, and IoT Research Hub**. These centers address technological challenges in secure communication and big data analytics .
- **Ongoing Research Projects:**
Key projects involve developing algorithms for secure IoT devices, machine learning applications in healthcare, and smart city technologies. Many projects are funded by DST and industry partners .
- **Publications:**
LNMIIT researchers contribute significantly to IEEE and ACM journals in areas of computer science, electronics, and data analytics .
- **Patents:**
Patents include encryption technologies for cybersecurity and IoT hardware innovations. These focus on improving digital security frameworks .
- **Innovation Lab:**
The lab encourages undergraduate and graduate students to develop practical applications for IT solutions, particularly in AI and networking .

- **Incubation Center:**
Supports startups in technology, with a strong emphasis on digital platforms and cybersecurity tools. Several successful IT-based startups have emerged from LNMIIT .
- **Collaborative Projects:**
Collaboration with TCS, Infosys, and DST on IoT and AI advancements .

6. Amity University, Jaipur

- **Research Centers:**
Hosts the **Biotechnology Research Facility** and **Nanotechnology Research Center**, among others. These aim to tackle issues in health sciences and advanced materials .
- **Ongoing Research Projects:**
Amity leads projects on nanomedicine, renewable energy systems, and water purification techniques. Industry and government agencies like DBT fund these projects .
- **Publications:**
Frequent contributors to international journals like *Nature Biotechnology* and *ACS Nano*, particularly in life sciences and nanotechnology .
- **Patents:**
Filed patents include advancements in nanomaterials and biodegradable plastics, reflecting their sustainability-focused approach .
- **Innovation Lab:**
Innovation spaces support drug development and advanced diagnostic tools. Labs are designed to foster translational research .
- **Incubation Center:**
Amity's incubation initiatives focus on biotech startups, supporting them with seed funding, infrastructure, and business guidance .
- **Collaborative Projects:**
Collaborates with European universities for sustainable energy and healthcare-related innovations .

7. Manipal University Jaipur

- **Research Centers:**
Includes the **Manipal Center for Natural Sciences** and the **Advanced Materials Research Laboratory**. These focus on space science, nanotechnology, and advanced materials .
- **Ongoing Research Projects:**
Key projects address green energy technologies, quantum computing, and advanced material composites. Collaborative efforts involve DST and leading private companies .
- **Publications:**
Research outputs include articles in *Nature Physics* and *Elsevier's Materials Today*. Fields of focus are material sciences, AI, and healthcare .
- **Patents:**
Manipal University is active in patenting nanotechnology-based solutions, quantum devices, and sustainable agricultural tools .
- **Innovation Lab:**
Provides resources for AI development, healthcare simulations, and advanced physics experiments. Students and researchers can work collaboratively on innovative technologies .
- **Incubation Center:**
The center promotes entrepreneurship in areas like IoT, agritech, and fintech. Several student-led startups have received funding through this platform .
- **Collaborative Projects:**
Engages in partnerships with institutions like IIT Bombay and Microsoft Research for projects on AI-driven healthcare and renewable energy systems .

8. Mody University of Science and Technology

- **Research Centers:**
Features the **Center for Women in STEM** and **Renewable Energy Research Facility**. These centers empower women researchers and contribute to sustainable energy innovations .
- **Ongoing Research Projects:**
Includes studies on solar-powered desalination, women-led technology advancements, and AI in education .

- **Publications:**
Researchers contribute to journals like *IEEE Education Transactions* and *Energy Conversion and Management*. Publications often focus on renewable technologies and education reforms .
- **Patents:**
Innovations in renewable energy devices and education-focused AI tools have been patented recently .
- **Innovation Lab:**
Provides a platform for students to develop smart classroom technologies and green energy prototypes .
- **Incubation Center:**
Supports startups focusing on edtech and renewable energy systems. Mentorship programs connect students with industry leaders .
- **Collaborative Projects:**
Collaborations include partnerships with global organizations like UNESCO and Siemens on women empowerment and green energy initiatives .

9. Poornima University, Jaipur

- **Research Centers:**
Hosts the **Center for Smart Infrastructure** and the **IoT and Robotics Research Lab**, aimed at urban planning and smart technologies .
- **Ongoing Research Projects:**
Projects include smart city planning, AI for traffic management, and IoT-enabled healthcare systems, with funding from private firms and government agencies .
- **Publications:**
Faculty frequently publish in engineering-focused journals such as *ASCE Journal of Infrastructure Systems*. Topics include AI, civil engineering, and IoT .
- **Patents:**
Recent patents involve IoT hardware for smart homes and AI algorithms for urban monitoring .
- **Innovation Lab:**
Focuses on engineering solutions for real-world urban issues like traffic optimization and waste management .

- **Incubation Center:**
Supports innovation in smart technologies, offering guidance to startups focusing on IoT and AI products .
- **Collaborative Projects:**
Partnerships with Cisco and Bosch for IoT-enabled smart city projects highlight Poornima University's collaborative efforts .

10. The LNM Institute of Information Technology (LNMIIT)

- **Research Centers:**
Includes the **Advanced Networking Research Center** and **Cybersecurity Lab**. These focus on internet security and machine learning applications .
- **Ongoing Research Projects:**
Funded by DST and private players, projects involve secure communication protocols, AI for healthcare diagnostics, and blockchain-based systems .
- **Publications:**
Researchers have contributed to *Springer's Lecture Notes in Computer Science* and *ACM Digital Library*. Topics include cybersecurity and IoT .
- **Patents:**
Active in filing patents for encryption technologies and AI-driven decision systems .
- **Innovation Lab:**
Facilitates development of advanced applications in cybersecurity, networking, and artificial intelligence .
- **Incubation Center:**
Focused on fostering startups in IT and digital systems. Some successful ventures have emerged in fintech and digital health .
- **Collaborative Projects:**
Collaborations include industry giants like Intel and TCS for advancements in networking and secure computing .

11. Rajasthan Technical University (RTU), Kota

- **Research Centers:**
Includes the **Advanced Engineering Materials Lab** and the **Center for Sustainable**

Energy Solutions, focusing on material innovation and renewable energy technologies .

- **Ongoing Research Projects:**

Key projects include smart grid systems, bio-inspired materials, and wastewater management funded by DST and private sponsors .

- **Publications:**

RTU faculty publish in journals like *ASCE Materials in Civil Engineering* and *Renewable Energy Journal*. Topics span energy systems and environmental engineering .

- **Patents:**

Focused on innovations in solar thermal systems and green construction materials, with an emphasis on sustainability .

- **Innovation Lab:**

Designed to support student-driven projects in smart technologies and renewable energy .

- **Incubation Center:**

Provides resources for startups in clean energy and materials science, promoting sustainable industrial practices .

- **Collaborative Projects:**

Partnerships with NTPC, Larsen & Toubro, and other industries for smart city infrastructure and green energy projects .

12. Banasthali Vidyapith, Tonk

- **Research Centers:**

Features the **Women in Technology Research Center** and **Biotechnology Innovation Hub**, emphasizing gender inclusivity and life sciences innovation .

- **Ongoing Research Projects:**

Projects on genomic research, renewable energy integration in agriculture, and AI-driven educational tools funded by DBT and UGC .

- **Publications:**

Notable contributions to journals like *Journal of Agricultural Biotechnology* and *IEEE Education Transactions*, focusing on educational and agricultural advancements .

- **Patents:**

Patented innovations in bio-pesticides and adaptive learning systems demonstrate Banasthali's interdisciplinary approach .

- **Innovation Lab:**
Facilitates work on women-led projects in STEM fields, from product design to prototype development .
- **Incubation Center:**
Supports startups focusing on edtech, healthcare, and agricultural technologies, promoting rural entrepreneurship .
- **Collaborative Projects:**
Collaborates with UNESCO and state government initiatives to promote women-centric research and education programs .

13. Jaipur National University (JNU), Jaipur

- **Research Centers:**
Hosts the **Center for Medical Biotechnology** and **Center for Advanced Computing Research**, enabling interdisciplinary studies .
- **Ongoing Research Projects:**
Includes studies on drug delivery mechanisms, AI in public health, and advanced cryptographic systems for secure communication .
- **Publications:**
Regular contributions to journals like *Clinical Therapeutics* and *ACM Transactions on Cybersecurity*, focusing on healthcare and digital security .
- **Patents:**
Filed patents in nanomedicine and blockchain-based security systems highlight the institution's focus on cutting-edge technology .
- **Innovation Lab:**
Supports projects in medical diagnostics and AI-driven analytics, offering opportunities for interdisciplinary collaboration .
- **Incubation Center:**
Focused on promoting healthcare startups and tech-driven business solutions in public health .
- **Collaborative Projects:**
Partnerships with the Indian Council of Medical Research (ICMR) and tech firms for advanced health monitoring systems .

14. Maharana Pratap University of Agriculture and Technology (MPUAT), Udaipur

- **Research Centers:**
Includes the **Center for Agricultural Innovation** and **Agro-Engineering Research Hub**, targeting challenges in sustainable agriculture .
- **Ongoing Research Projects:**
Focused on soil health monitoring, climate-resilient crops, and IoT-based irrigation systems with support from ICAR and government agencies .
- **Publications:**
Research appears in journals like *Agricultural Systems* and *Journal of Soil Science*. Focus areas include sustainable farming and agro-technologies .
- **Patents:**
Innovations in smart irrigation systems and bio-fertilizers underline MPUAT's commitment to agricultural progress .
- **Innovation Lab:**
Offers resources for developing agro-machinery and testing sustainable farming prototypes .
- **Incubation Center:**
Supports startups in agritech and food processing, connecting them with industry stakeholders .
- **Collaborative Projects:**
Works with NABARD and FAO for projects addressing food security and sustainable agriculture .

15. Vivekananda Global University (VGU), Jaipur

- **Research Centers:**
Includes the **Center for Smart Technology** and **Applied Science Innovation Lab**, focusing on IoT and advanced engineering solutions .
- **Ongoing Research Projects:**
Research includes smart energy meters, AI-based waste management, and green infrastructure funded by private firms and government bodies .
- **Publications:**
Frequent publications in journals like *Journal of Smart Engineering* and *ASCE*

Environmental Engineering. Topics include smart technologies and environmental solutions .

- **Patents:**
Focused on IoT solutions for urban management and energy optimization systems .
- **Innovation Lab:**
Equipped with state-of-the-art systems for AI, robotics, and IoT, driving interdisciplinary innovation .
- **Incubation Center:**
Supports entrepreneurial initiatives in clean tech, urban planning, and IT solutions, enabling impactful startups .
- **Collaborative Projects:**
Collaborates with local municipal bodies and private tech companies for developing smart city solutions .

16. JNV University, Jodhpur

- **Research Centers:**
Includes the **Center for Desert Studies** and **Advanced Materials Lab**, focusing on desert ecology, arid land agriculture, and material sciences .
- **Ongoing Research Projects:**
Key projects include the study of drought-resistant crops, water conservation technologies, and advanced composites for structural applications .
- **Publications:**
Faculty frequently contribute to journals like *Desert Research Journal* and *Materials Science and Engineering Reports*. The focus is on sustainable technologies and desert biodiversity .
- **Patents:**
Patents include innovations in soil erosion prevention methods and bio-based structural materials .
- **Innovation Lab:**
The lab fosters student-led projects in resource optimization and environmental monitoring for desert ecosystems .
- **Incubation Center:**
Supports startups focused on renewable energy and sustainable practices suitable for arid regions .

- **Collaborative Projects:**

Collaborates with the Central Arid Zone Research Institute (CAZRI) and international bodies for ecological and agricultural research .

17. ICFAI University, Jaipur

- **Research Centers:**

Features the **Center for Business Analytics** and **Law and Governance Research Hub**, addressing business intelligence and public policy challenges .

- **Ongoing Research Projects:**

Projects include studies on data-driven decision-making tools, AI in legal analytics, and blockchain in governance .

- **Publications:**

ICFAI faculty publish regularly in journals like *Journal of Business Research* and *Law Technology and Policy Review*. Focus areas include analytics and regulatory frameworks .

- **Patents:**

Filed patents cover innovations in blockchain systems for secure transactions and machine learning for predictive analytics .

- **Innovation Lab:**

Aims to bridge gaps between business problems and tech-driven solutions, especially in fintech and legal tech .

- **Incubation Center:**

Encourages startups in business analytics, offering mentorship and seed funding for scalable solutions .

- **Collaborative Projects:**

Works with fintech firms and law institutes for projects in regulatory compliance and AI-driven financial systems .

18. Maharaja Ganga Singh University (MGSU), Bikaner

- **Research Centers:**

Includes the **Center for Historical Research** and **Environmental Studies Lab**, which focus on cultural heritage and regional environmental issues .

- **Ongoing Research Projects:**
Active projects include the digitization of historical manuscripts and studies on sustainable water usage in arid regions .
- **Publications:**
Contributions to journals like *Indian History Quarterly* and *Environmental Science & Policy*. Topics include heritage conservation and water management .
- **Patents:**
Limited patent activity, primarily in environmental sustainability .
- **Innovation Lab:**
Supports research in historical artifact preservation and environmental monitoring systems .
- **Incubation Center:**
Encourages startups focused on ecotourism and heritage preservation technologies .
- **Collaborative Projects:**
Collaborates with UNESCO and local governments for heritage and sustainability initiatives .

19. Pacific University, Udaipur

- **Research Centers:**
Includes the **Center for Biotechnology** and **Applied Mechanics Lab**, addressing innovations in life sciences and structural engineering .
- **Ongoing Research Projects:**
Projects include the development of bioengineered materials, studies on structural resilience, and medical imaging technologies .
- **Publications:**
Frequent contributions to journals like *Biotechnology Advances* and *Structural Health Monitoring*. Topics include advanced biomaterials and engineering diagnostics .
- **Patents:**
Focused on bioengineered materials and imaging devices, showcasing technological innovations .
- **Innovation Lab:**
Encourages interdisciplinary approaches to biotech and mechanical engineering challenges .

- **Incubation Center:**
Supports biotech startups in pharmaceuticals and agricultural technologies .
- **Collaborative Projects:**
Works with pharmaceutical companies and engineering firms for applied research .

20. IIS (Deemed to be University), Jaipur

- **Research Centers:**
Hosts the **Center for Advanced Research in Women's Studies** and **Digital Humanities Lab**, focusing on gender studies and cultural analytics .
- **Ongoing Research Projects:**
Studies include women's health analytics, cultural narratives in digital media, and sustainable development policies .
- **Publications:**
IIS researchers contribute to journals like *Feminist Studies* and *Digital Humanities Quarterly*. Topics focus on gender equity and cultural data analysis .
- **Patents:**
Limited activity, primarily in tools for digital cultural analytics .
- **Innovation Lab:**
Provides platforms for experimental studies in gender-focused STEM education and cultural preservation .
- **Incubation Center:**
Encourages startups in gender equity tools and digital education platforms .
- **Collaborative Projects:**
Partnerships with national women's organizations and cultural bodies for applied gender research .