



# BITS Pilani

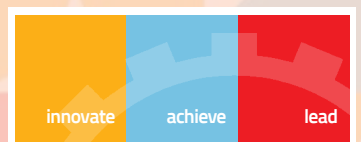
Pilani | Dubai | Goa | Hyderabad | Mumbai

An 'Institute of Eminence'



## Research & Innovation

- ▶▶ Academics
- ▶▶ Research
- ▶▶ Innovation
- ▶▶ Entrepreneurship





## Vision

To cultivate scientific minds which search for truth, without any dogma, for preparing young men and women to become leaders of the economic and industrial development of the nation, providing education that enhances livelihoods at scale, but is also value based, that gives roots and gives wings so that our graduates may play a creative and important role in service to humanity.

To become the destination of choice for aspiring students and faculty alike, establishing itself as an outstanding educational Institution with a focus on fundamental and translational research in select domains in each Discipline, which impinge upon some of the biggest challenges facing the world.

## Mission

To further laying considerable stress on the importance of experience as a part of the education process, by ensuring that its programs interface strongly with industry, and provide for opportunities for students to engage in independent experiential learning.

To continue striving to inculcate an entrepreneurial mindset in its students by providing a curriculum with a high degree of flexibility, and having students supported in making choices for which they are responsible.

To ensure creating generations of innovative academics, business leaders, civil servants, and above all, new venture creators, generators of knowledge, wealth and employment, and world citizens who will, individually and collectively, address profound problems on the global stage.

To accelerate building its research capabilities, recruiting research focused faculty members, investing in research infrastructure, and growing the graduate programs, and developing domains of research excellence, both basic and translational, in various Disciplines that are recognized as such nationally and internationally.



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## CAMPUSES



Pilani Campus



Dubai Campus



K K Birla Goa Campus



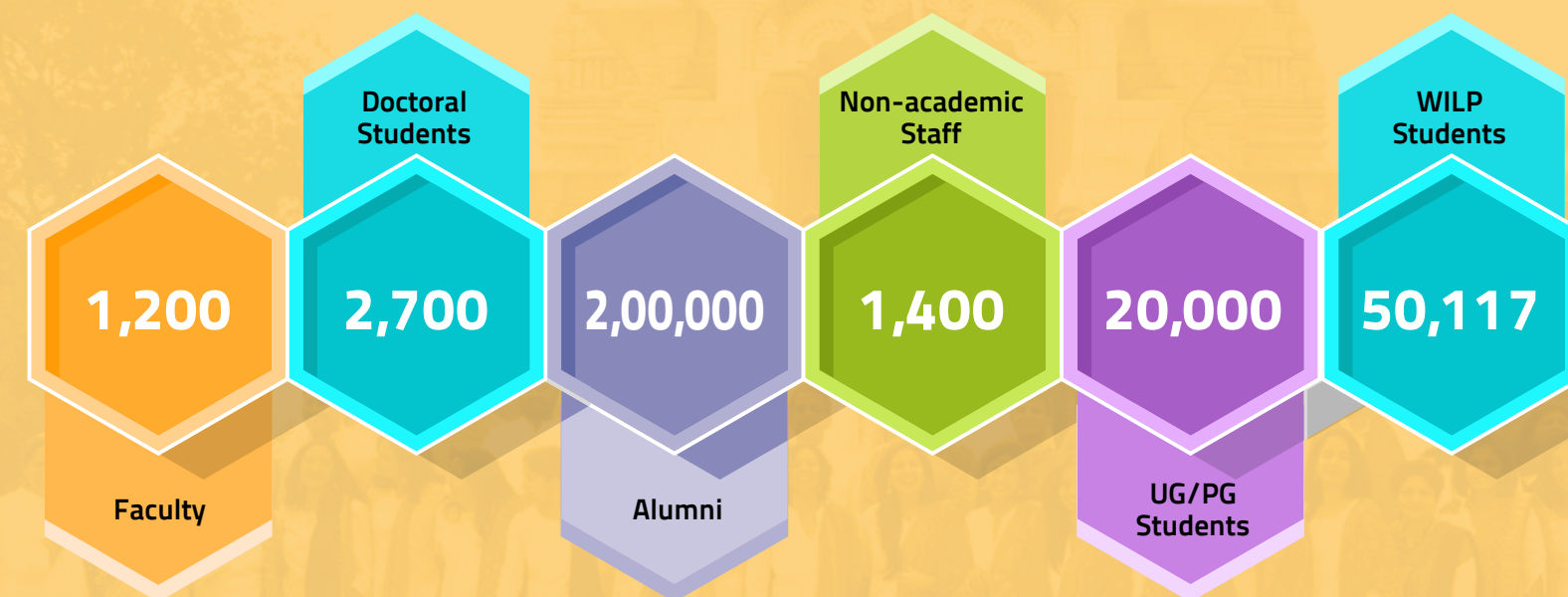
Hyderabad Campus



Mumbai Campus

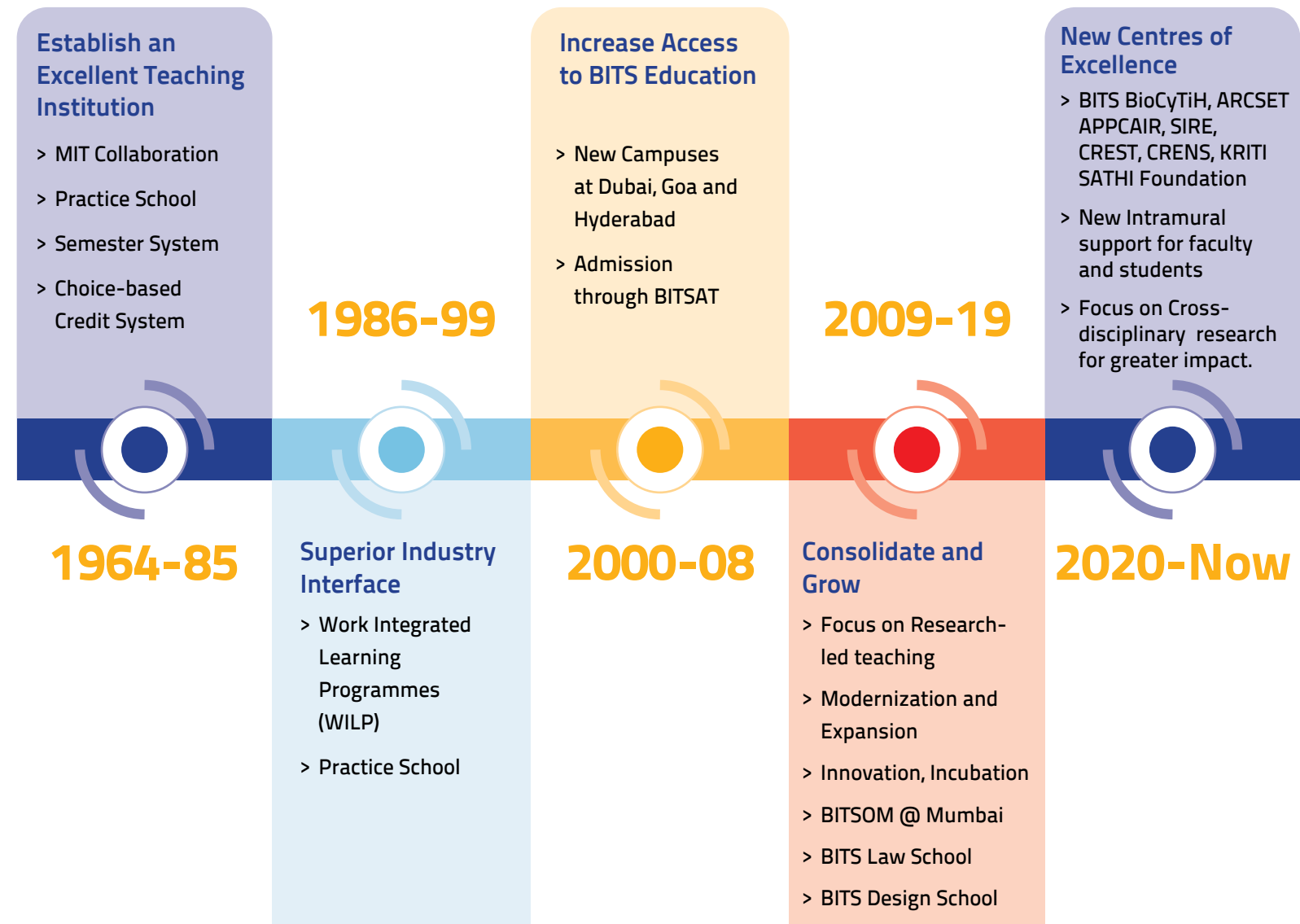
AMARAVATI CAMPUS COMING SOON!

## OUR GROWING NUMBERS

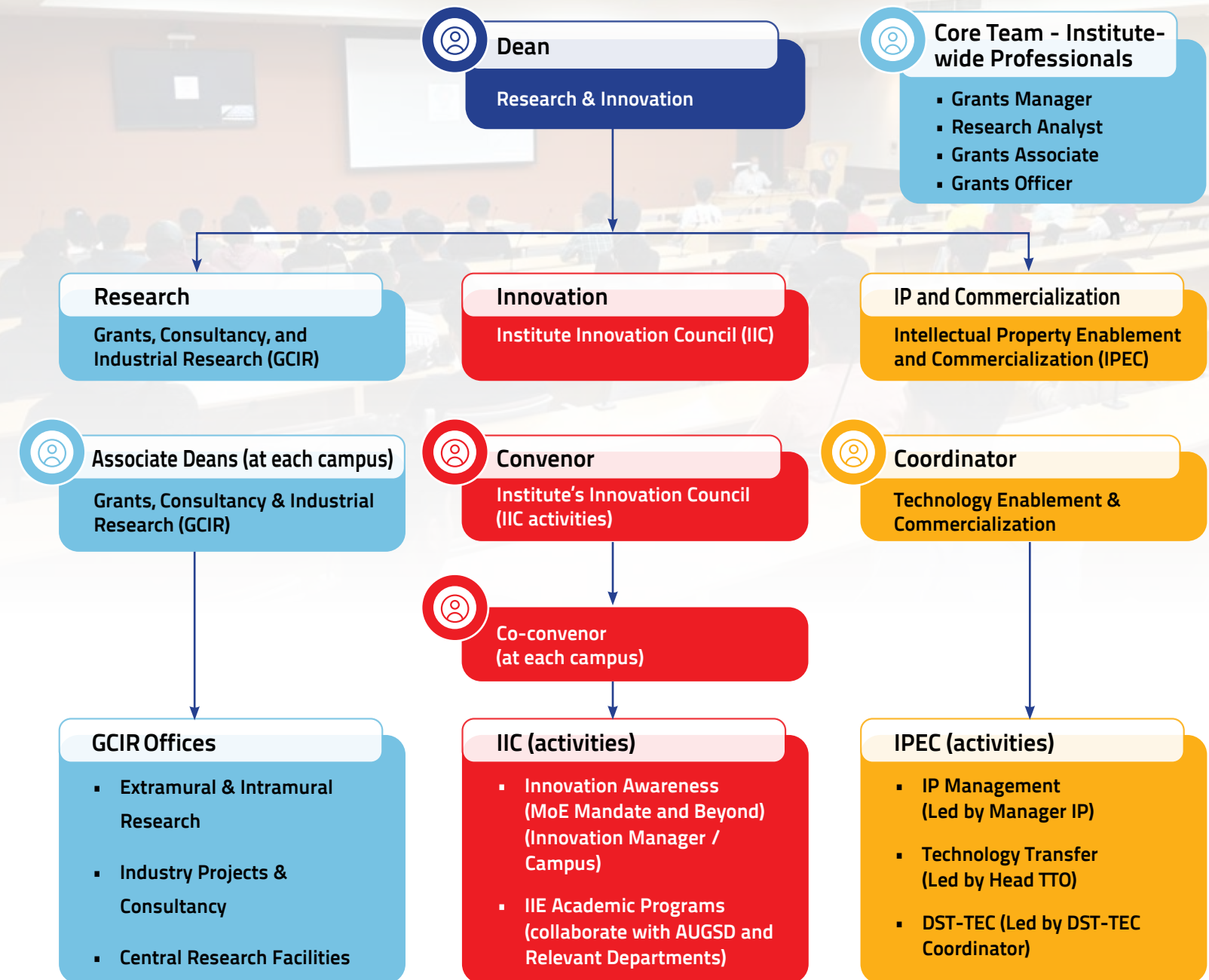


# The Memory Lane

Understanding our Past to Paint the Future



# R&I Organogram



# Research Overview



**5+ COEs** across campuses



**2,000 + Extramural** historical projects



**28,000 + Publications**



**3,000 + Publications/ year**



**26% Papers** with International Co-Authors



**45% Papers** with Indian Collaborations



**>5,00,000 Cumulative Citations**



**410+ Average Citation/Faculty**



**80 + Faculty > 1000 Citations**



**208 h-index**



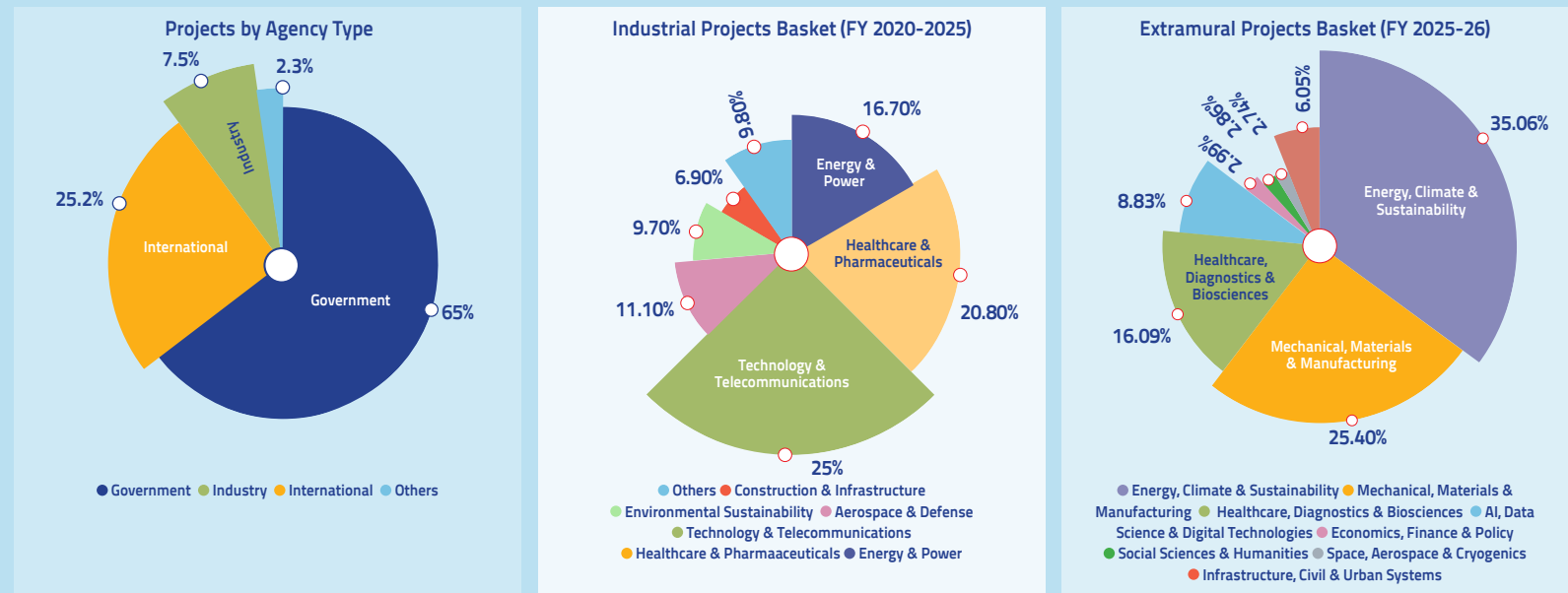
**18 IPs** Transferred



**6 Spin-offs** on IPs



## Our Research Umbrella



## Our Major Funders



**Government Funding Agencies**



**International Bodies**



**Industries**

### Recent Major Grants

- DBT BUILDER: ₹22 Cr
- DST PURSE: ₹23 Cr
- DST TEC: ₹6.5 Cr
- DST SATHI: ₹70 Cr
- MeitY Radiation Dosimeter: ₹6.40 Cr

### Publications

- CAGR CY 21-25
  - 9.2% # Articles
  - 28.3% # Citations
- Average Impact Factor ~ 4.2
- Featured in Nature Index

### Patents

- 740 Patents Filed
- 151 Patents Granted
- 191 patents filed during FY 2025-26

### External Funding

- 5 Yr average annual grant increased by >4 times
  - ₹94.5 Cr/Yr (FY 20 to FY 25)
  - ₹21.5 Cr/Yr (FY 14 to FY 19)

### Institute-wide Centres of Excellence

- Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR) [www.appcair.com](http://www.appcair.com)
- Centre for Research Excellence in National Security (CRENS) [crens.bits-pilani.ac.in](http://crens.bits-pilani.ac.in)
- Centre for Research Excellence in Semiconductor Technologies (CREST) [crest.bits-pilani.ac.in](http://crest.bits-pilani.ac.in)
- Advanced Research Centre for Sustainable Energy Technologies (ARCSET) [arcset.in](http://arcset.in)
- Kakatiya Centre for Rural Innovations, Technology, and Impact (KRITI)

## Research Milestones

### Joint PhD Programmes

- RMIT University, Australia
- La Trobe University, Australia
- University of Michigan, USA
- IISER Tirupati

### BITS x Partner Organizations

- Wipro
  - 40 sponsored research projects
  - ₹2.1 Cr funding
- Blockchain For Impact (BFI)
  - 7 funded research projects
  - ₹3.2 Cr funding
- BITS BioCyTiH Foundation
  - ₹125 Cr Technology Innovation Hub (TIH)
  - Bio-CPS research, innovation & entrepreneurship



## Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR)

# C

### CONCEPTUAL AI

Mathematical, Computational and Empirical Understanding of Perception, Problem-solving, Reasoning, Learning, Communication and Actions in Complex Environments.

# A

### APPLICATIONS OF AI

In Natural, Health and Social Sciences, Engineering, Education, Environment, Agriculture, Urban Planning.

# I

### IMPLEMENTATIONS OF AI

Tools and Techniques for Machine Learning, Probabilistic Modelling, Statistical Learning, Optimisation, Computer Vision, Autonomous Agents.

# R

### RESPONSIBLE AI

Explainable AI, Ethics and Accountability, AI & Society.



**150+**  
Publications



Patents:  
**10+**



Research Grants:  
**₹ 21+** Crores

## INDUSTRY PARTNERS



**WADHWANI AI**



TATA CONSULTANCY SERVICES

**REFLEXIS**

**ABB**

**oyla**

**Funding:** BITS Alumni Anuradha and Prashanth Palakurthi have made a commitment to contribute US\$1 million for setting up a centre named **Anuradha and Prashanth Palakurthi Centre for Artificial Intelligence Research (APPCAIR)** for promoting research in the area of Artificial Intelligence.

Contact: Head - APPCAIR | [appcair.head@bits-pilani.ac.in](mailto:appcair.head@bits-pilani.ac.in) | +91-832 2580 855 | [www.appcair.com](http://www.appcair.com)



## Advanced Research Centre for Sustainable Energy Technologies (ARCSET)

### Vision

ARCSET seeks to catalyze progress in the development of innovative and scalable technologies that will support the transition to the adoption of clean energy across the global landscape. The Centre envisions delivering pioneering solutions to tackle challenges where energy will play an essential role in holistically advancing the pathway to a sustainable future in India and around the world.

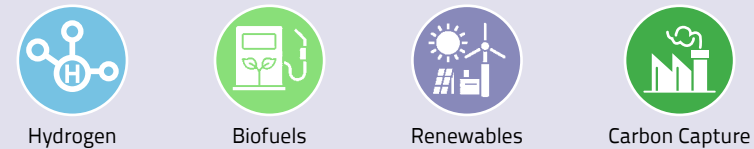
### Objectives



### Mission

The Mission is to foster a sustainable energy future by supporting research, education, innovation, collaboration, and entrepreneurship in advanced energy technologies. The Centre is dedicated to developing and implementing affordable, cutting-edge solutions that will reduce carbon emissions, enhance energy security, and ensure equitable access to sustainable energy resources. Through a multidisciplinary approach, ARCSET will leverage the expertise of BITS Pilani faculty and engage external leaders from academia and industry to tackle energy challenges and drive transformation in sustainable energy.

### Research Areas:



### Industry Partners

**NEXT-ChemX**

NEXT-ChemX Corporation

**ION EXCHANGE**  
Refreshing the Planet

Ion Exchange (India) Ltd.,

**ChemDist**

Chemdist Group

Contact: [arcset.energy@goa.bits-pilani.ac.in](mailto:arcset.energy@goa.bits-pilani.ac.in) | [arcset.in](http://arcset.in)



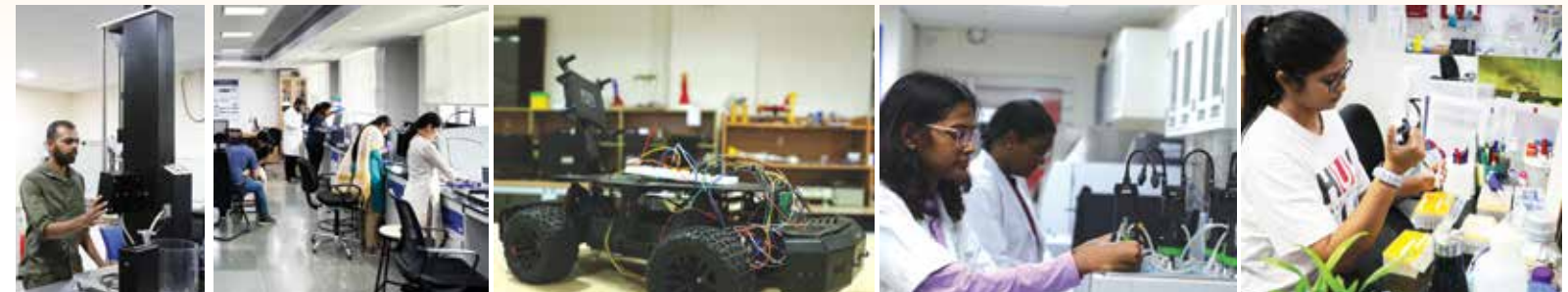
## Centre for Research Excellence in National Security (CRENS)

### Objective

The Centre of Excellence for Homeland Security at BITS Pilani Hyderabad named as Centre of Research Excellence for National Security (CRENS) represents a strategic initiative to enhance the nation's security capabilities through indigenous technology development. By fostering collaboration, innovation, and skill development, the CRENS will play a crucial role in making the country self-reliant in the national security domain. The success of this initiative will significantly contribute to the nation's strategic and economic growth, ensuring a secure and prosperous future.

### Mission

To excel in cross-domain research opportunities and cutting-edge technological advancements in national security. Supporting self-reliance through advanced education, innovative research, and inculcating advanced skills. Driving out-of-the-box innovation in systems and services to build robust solutions that ensure the security and resilience of our nation.



Contact: Head - CRENS | [crens.head@bits-pilani.ac.in](mailto:crens.head@bits-pilani.ac.in) | +91-40 6630 3686 | [crens.bits-pilani.ac.in](http://crens.bits-pilani.ac.in)

## Vision

To make BITS Pilani as the leading academic institution for Semiconductor Research and Innovation in India.

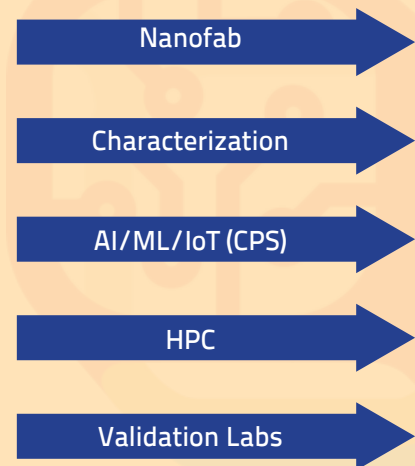
## Mission

To be on the forefront of India's Mission Level Programs (Semiconductors, Cyber-Physical System and Quantum Tech)

## Objectives

- Industry-ready professionals with career placements in Semiconductor sector
- Cutting-edge innovations, Intellectual Property, and Research Publications
- An established ecosystem (infrastructure, resources, and know-how) for students, researchers, and startups

## FACILITATORS



## Materials

|                                |
|--------------------------------|
| 2D Materials                   |
| Catalytic Materials            |
| Organic / Inorganic Composites |
| Piezoelectric Composites       |
| Heterojunction                 |
| Optical / Photonic Materials   |

## Devices

|                  |
|------------------|
| FETs             |
| MEMS / Wearables |
| Memristors       |
| Plasmonic        |
| Ring Resonators  |
| Photodetectors   |
| Si Photonic ICs  |

## Applications

|                            |
|----------------------------|
| Smart Sensors / Biosensors |
| Smart Coatings             |
| Antimicrobial Antifouling  |
| Energy Harvesting          |
| Environmental              |



Contact: Head-CREST | [crest.head@bits-pilani.ac.in](mailto:crest.head@bits-pilani.ac.in) | +91-40 6630 3686 | [crest.bits-pilani.ac.in](http://crest.bits-pilani.ac.in)

## About KRITI

KRITI (Kakatiya Centre for Rural Innovations, Technology, and Impact) is an initiative of BITS Pilani designed to inspire students, faculty, and alumni to create meaningful social impact in India and beyond. It bridges technology, innovation, and social development - channeling the creative energies of India's brightest young minds to build sustainable, equitable solutions for real-world problems.

## Vision

Empower, enable, and engage student, faculty, and alumni leaders to lead with purpose, innovate for equity, and build sustainable solutions to society's most pressing challenges.

## Mission

Equip students, faculty, and alumni with the skills, experiences, and resources to become changemakers through social innovation, leadership development, venture creation, and purposeful action.

## Core Objectives

- Foster values-based leadership to drive systemic social and environmental change.
- Incubate scalable, sustainable ideas and ventures addressing critical development challenges.
- Create pathways for collaboration with NGOs, social enterprises, and public policy institutions.
- Promote empathy, volunteerism, and responsible citizenship through fieldwork and innovation challenges.
- Connect alumni working in the impact sector to mentor and inspire students.
- Translate BITSian research and innovations into grassroots solutions.



## Intended Impact

- Engage 1,000+ students annually in structured social innovation experiences.
- Incubate 20+ social ventures and 10+ policy projects each year.
- Build a national repository of real-world problem statements and scalable impact models.
- Establish BITS Pilani as a leading hub for technology-driven social innovation.

## KRITI inaugurated by Shri Kumar Mangalam Birla



Contact: Head-KRITI | [head.kriti@bits-pilani.ac.in](mailto:head.kriti@bits-pilani.ac.in)

## Materials Centre for Sustainable Energy & Environment [McSEE]

**McSEE** spans across the full spectrum of energy production, storage and conversion. The Centre includes curiosity-driven fundamental research, engineering technology as well as applied research in collaboration with industry. The Centre spans cross-disciplinary research and collaboration across the Departments of Electrical & Electronics Engineering, Mechanical Engineering, Chemical Engineering, Physics & Chemistry. McSEE activities span workshops, expert lecture series, conferences, visiting faculty engagement, sustainability programs and the long-term vision of establishing a national centre.

### VISION

Materials Centre for Sustainable Energy & Environment at BITS Pilani Hyderabad Campus has been set up as a Centre on materials research for alternative renewable energy applications, environment and healthcare.

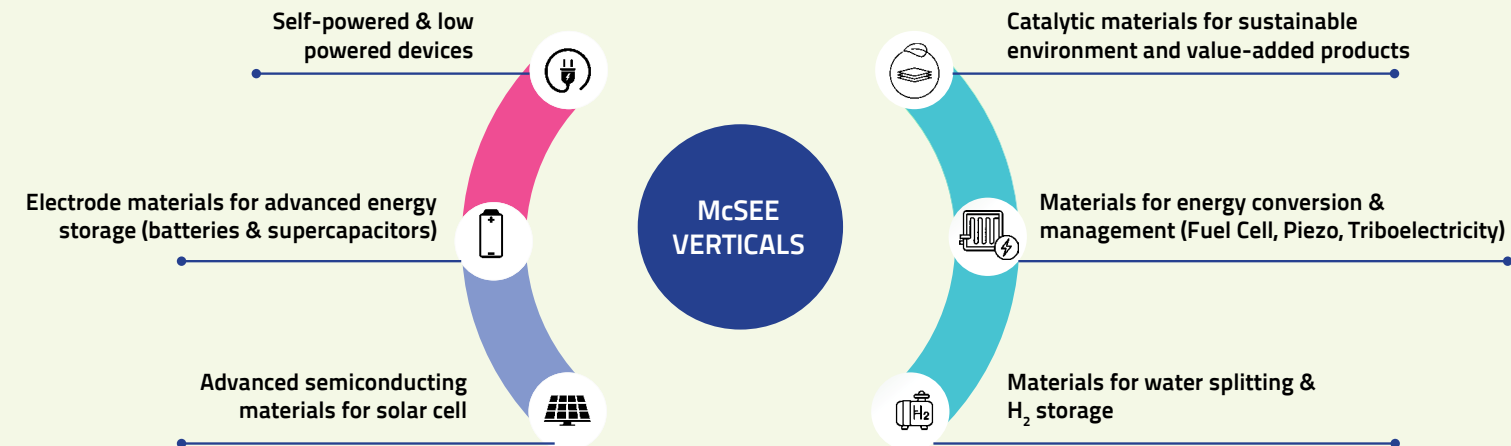
- To be a sustainability-led research Centre.
- Implementing interdisciplinary research and development for meeting the needs of society.
- Being a nationally recognized pioneer Centre in advanced materials and renewable energies.

### McSEE Infrastructure & Equipment

- GC-MS with ALS
- High Pressure Flow Reactor
- High Pressure Batch Reactor
- Battery Fabrication & Testing Setup
- High-Pressure Sorption
- Solar Simulator
- Glove Box

### McSEE OUTPUT

- Total Publication with McSEE Affiliation in 2 Years **130**
- Total Patent with McSEE Affiliation in 2 Years **3 [1 Granted]**
- Average Impact Factor **~ 6**
- Cumulative Impact Factor **641**
- Average Publications / Member / Year **~ 6**
- Cumulative Funding Attracted **₹ 3.3 Cr**



Contact: Prof. Sounak Roy | E-mail: [sounak.roy@hyderabad.bits-pilani.ac.in](mailto:sounak.roy@hyderabad.bits-pilani.ac.in)



## BITS BioCyTiH Foundation (BBF)

BITS BioCyTiH Foundation (BBF) is a Sec. 8 company established by BITS Pilani with initial funding from NM-ICPS program of DST, Government of India. BBF supports the development of intellectual capacity in the area of 'Bio-Cyber Physical Systems (Bio-CPS)'.

Bio-Cyber Physical Systems (Bio-CPS) is an interdisciplinary field that synergistically combines principles from biology, electronics, computer science, and related disciplines to offer transformative solutions. It employs a diverse array of cutting-edge technologies like IoT, ML, AI, AR, smart sensors etc. BBF's activities include:

### INFRASTRUCTURE CREATION

- > IoT Lab
- > Bio Lab Facility
- > Bio-Sensor Lab
- > Bio-CPS Incubator
- > Device Fabrication Lab
- > Omics GLP Facility
- > Flexible & Printed Electronics Lab
- > Data and Systems
- > Security Lab

### RESEARCH TRANSLATION

- > Provide resources for impactful projects towards development of novel products / prototypes / IP etc.,
- > R&D partnerships with industry and other organisations
- > Community outreach
- > Technology transfer

### ENABLING DEEP-TECH STARTUPS

- > Foster an innovation ecosystem for deep-tech startups by extending incubation and prototyping facilities, mentorship, investments and business networks etc.,
- > Tailored programs (Ideathons, pitching, immersion etc.) to nurture startups from conceptualization to commercialization stage mostly within the BioCPS domain

### CAPACITY BUILDING

- > To create a capable workforce in CPS area, customised programs like Master classes, workshops, networking events, mentoring sessions, skill development etc., in the area of Design thinking, IP, Regulatory, etc., are organised
- > UG, PG, PhD Fellowships
- > Faculty fellowship and chair professorships

### JOURNEY SO FAR

- > Tech startups supported: 30+
- > R&D Projects supported: 28
- > Patents & Publications: 20+
- > Trained 1,500+ people



Contact: Head - BITS BioCyTiH Foundation | [ceo@biocyti.co.in](mailto:ceo@biocyti.co.in) | [www.biocyti.co.in](http://www.biocyti.co.in)

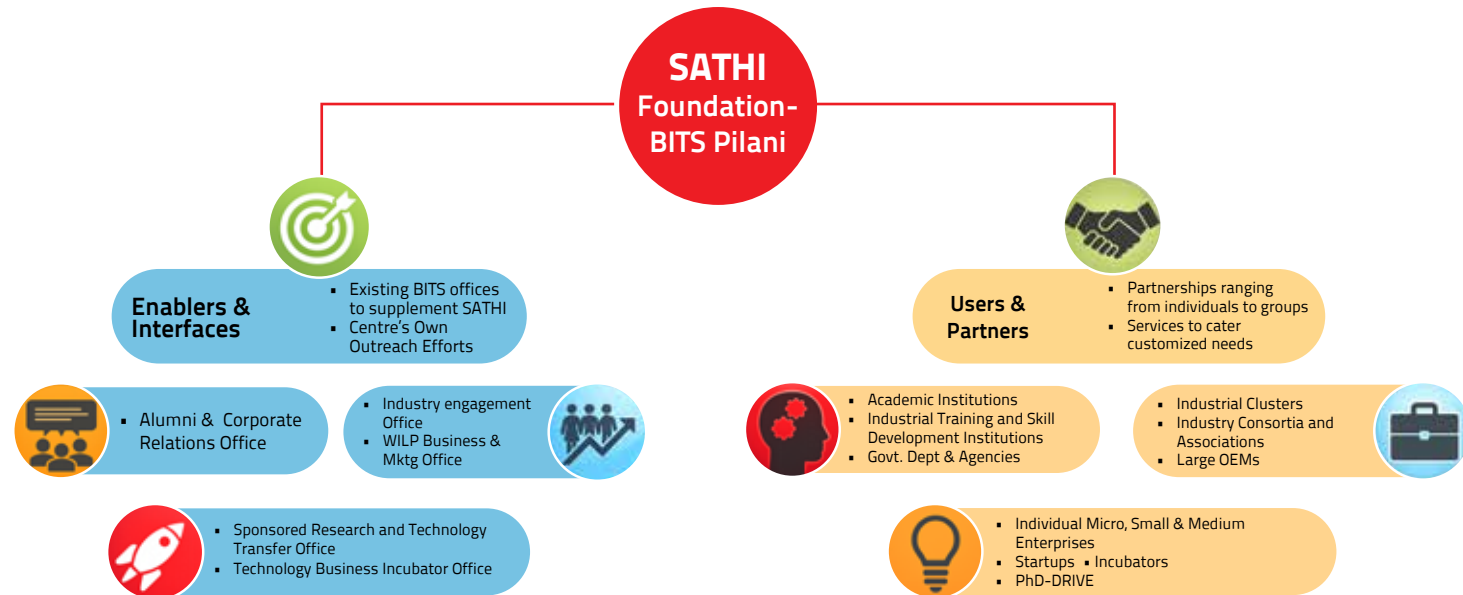


## Sophisticated Analytical & Technical Help Institute (SATHI)

SATHI Foundation - BITS Pilani, a Section 8 company established through joint support received from The Department of Science and Technology, Govt. of India and BITS Pilani. The Foundation aims to become a catalyst for the next wave of IoT-based smart electronic devices, prototyping, biotechnology, and healthcare startups in India while also meeting the diverse needs of researchers in various scientific and engineering domains. This state-of-the-art instrument facility at BITS Pilani, Pilani Campus, will provide a significant boost to enhance research and development activities.



The Foundation aims to provide the infrastructure and high-end instrumentation required for research, development, evaluation, and characterization of different chemical, biological, pharmaceutical, biotechnological, and engineering-based products and technologies. The primary users of this facility would be the researchers and scientists working in the fields of chemical sciences, engineering sciences, pharmaceuticals, and life sciences. Moreover, the facility will also provide an excellent platform to start-up companies, mini industries, and R&D Centres operating in the areas of engineering, pharmacy, and biotechnology.



Contact: In-charge - SATHI | [sathi@bits-pilani.ac.in](mailto:sathi@bits-pilani.ac.in) | [www.discovery.bits-pilani.ac.in/Sathi](http://www.discovery.bits-pilani.ac.in/Sathi)

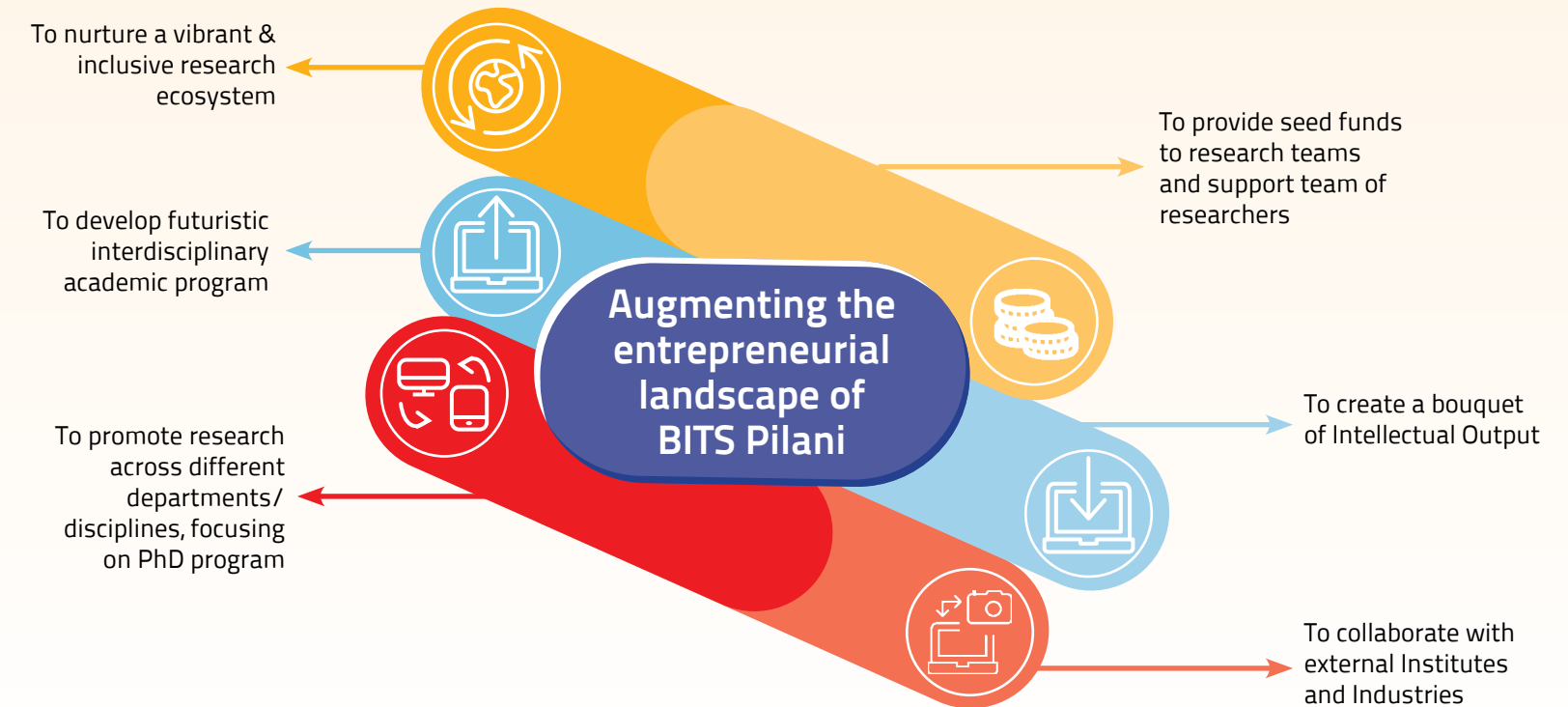


## School of Interdisciplinary Research and Entrepreneurship (SIRE)

SIRE aims to build & augment BITS Pilani's strength in cross-disciplinary research.

### Strategic Plan:

- Strengthen and expand existing cross-disciplinary research & innovation programmes through academic programmes (courses & minor programmes)
- Support the ecosystem through CDRF, PhD programmes under various Centres of Excellence.
- Support student-driven initiatives like SPARKLE, SOLVE etc.



Contact: Head-SIRE | [sire.head@bits-pilani.ac.in](mailto:sire.head@bits-pilani.ac.in) | [www.sire.bits-pilani.ac.in](http://www.sire.bits-pilani.ac.in)

# Intramural Initiatives

## FACULTY DRIVEN

### Cross-Disciplinary Research Framework (CDRF)

#### Objective

Encourage and facilitate **research interactions** while building and nurturing new **cross-disciplinary collaborations**. This will enable researchers to secure more externally funded projects and focus on generating high-end intellectual outputs.

#### Highlights

- Currently supporting 114 cross-disciplinary projects
- Funding: ₹10 Lakhs / year per Investigator (for 2 years)
- 1 PhD scholar per team



### New Faculty Seed Grant (NMSG)

#### Objective

To **inspire** research-motivated and bright faculty members to pursue **high-quality research**. As an initial step, support is extended to regular faculty members holding faculty positions.

#### Highlights

- Currently supporting 111 faculty members
- Funding: ₹20 Lakhs / Investigator (for 2 Years) plus ₹20 Lakhs matching CAPEX grant



## STUDENT DRIVEN

### Student Program for Advancing Research, Knowledge, and Entrepreneurship (SPARKLE)

#### Objectives

An **open challenge-based** program, where a group of students, representing all years of study, work on a problem under a faculty's guidance.

#### Highlights

- Involves a student team (at least **1 student from each year**) responding to open challenges shared by faculty, industry, or alumni.
- These challenges may be ambitious, with **no fixed timelines for completion**.
- SPARKLE initiative focuses on promoting discovery, collaboration skills, invention, & **startups**.
- It provides opportunities for students to engage in long-term research problems & create patents or **startups** at BITS Pilani.
- Funding: ₹2 lakhs per project for 12 months

### Innovation Program for Solving Societal and Business Problems (SOLVE)

#### Objective

For students who have an **idea** for solving a business and societal problem and looking forward to convert it to a **business enterprises**.

#### Highlights

- Encourages **individuals** or **groups of individuals** to work on a specific idea solving a critical societal / business problem.
- Students can apply to this program individually or along with team members, who may be other students or faculty.
- The students may or may not have formed a legal entity. In case they form a legal entity, they would have to register at the local incubator and give 2% equity to the incubator. These incubators can support them with more funding if needed.
- Funding: ₹2 lakhs/project 12 months



# Institute-wide Facilities & Sophisticated Instruments



▶▶ NMR



▶▶ UTM



▶▶ XRF



▶▶ Clean Room: Class 100 &amp; 1000



▶▶ LC-MS



▶▶ FESEM with STEM



▶▶ Raman



▶▶ Animal House



▶▶ SC XRD



▶▶ Powder XRD



▶▶ Confocal



▶▶ TGA

# BITSian Unicorns

**Valuation > \$86.55 Billion**  
**Recent Funding > \$5.4 Billion**

46 +

Years of Educating  
Working Professionals

1,36,904+

Working Professionals  
Graduated

50,117

Working Professionals  
Currently Enrolled

47 +

Programs

Work Integrated Learning Programs offers B.Tech., M.Tech., M.Sc., MBA and Certificate programs to engineering and technology professionals across the country for over 45 years now, enabling over 1,00,000 professionals of them in industries such as IT, Automotive, Manufacturing, Pharma and Chemicals to propel their careers forward.

1460+

Pre Placement offers

₹100 Cr

Stipend

565 +

PS Stations

3650+

Students

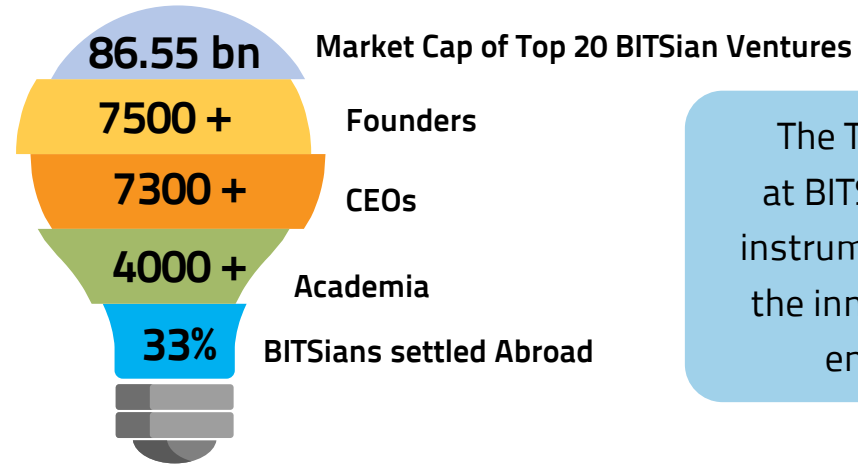
Practice School Program provides students an opportunity to practice what they have learnt, in global organizations under the supervision of a mentor. Students work on cutting-edge technologies and could choose to practice in their own discipline of study or in cross-discipline areas.

Contact: [admission@wilp.bits-pilani.ac.in](mailto:admission@wilp.bits-pilani.ac.in) | [www.bits-pilani-wilp.ac.in](http://www.bits-pilani-wilp.ac.in)

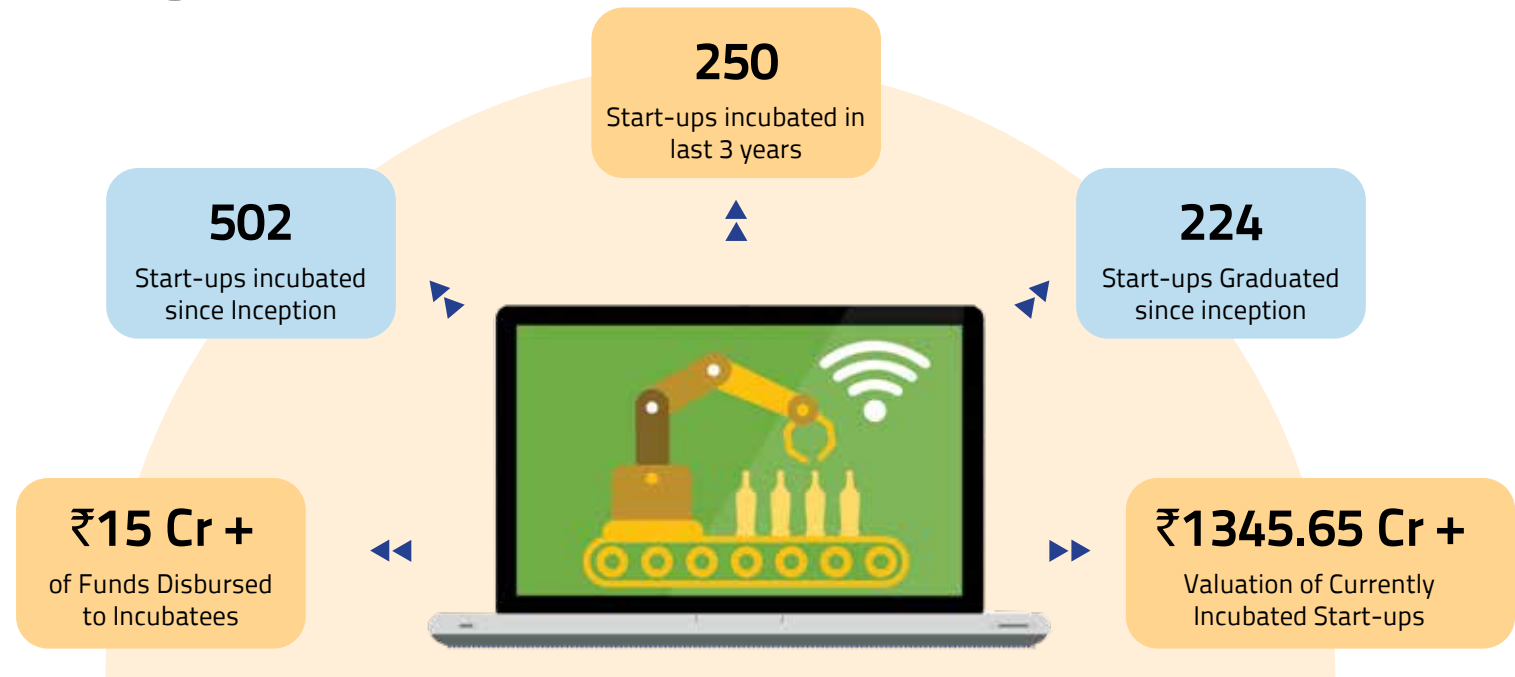


| 1720<br>BITSians Start-ups in India                                                                                                             | 20<br>BITSians Unicorns                                                                                                                       | \$7.17 Billion<br>Raised by 245 Alumni Start-ups in the last 2 Years                                                                           |                                                                                                                                                |
|-------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| <br>Total Valuation : \$7.8 B<br>Recent funding : \$1.25 B   | <br>Total Valuation : \$3.5 B<br>Recent funding : \$22.7 M | <br>Total Valuation : \$5.6 B<br>Recent funding : \$225 M   | <br>Total Valuation : \$3.89 B<br>Recent funding : \$401 M  |
| <br>Total Valuation : \$7 B<br>Recent funding : \$202.3 M    | <br>Total Valuation : \$2 B<br>Recent funding : \$50 M     | <br>Total Valuation : \$3.1 B<br>Recent funding : \$150 M   | <br>Total Valuation : \$8 B<br>Recent funding : \$150 M     |
| <br>Total Valuation : \$1.45 B<br>Recent funding : \$5.41 M | <br>Total Valuation : \$1 B<br>Recent funding : \$62.4 M  | <br>Total Valuation : \$5 B<br>Recent funding : \$325 M    | <br>Total Valuation : \$2.4 B<br>Recent funding : \$211 M   |
| <br>Total Valuation : \$7.8 B<br>Recent funding : \$350 M  | <br>Total Valuation : \$1.6 B<br>Recent funding : \$85 M | <br>Total Valuation : \$5 B<br>Recent funding : \$500 M   | <br>Total Valuation : \$1.4 B<br>Recent funding : \$200 M |
| <br>Total Valuation : \$14 B<br>Recent funding : \$1 B     | <br>Total Valuation : \$1.5 B<br>Recent funding : \$80 M | <br>Total Valuation : \$3.5 B<br>Recent funding : \$126 M | <br>Total Valuation : \$1 B<br>Recent funding : \$150 M   |

# Entrepreneurship and Incubation



The Technology Business Incubator at BITS Pilani was set up in **2004**. It is instrumental in defining and supporting the innovation, commercialization, and entrepreneurship ecosystem.



Contact: CEO (Incubation & Entrepreneurship Cell) | [ceo.ie@bits-pilani.ac.in](mailto:ceo.ie@bits-pilani.ac.in)



# Key Highlights of our Incubatees



- ▶ Nawgati raised \$2.5 million in Pre-Series A round
- ▶ Simplismart raised \$7 million in Series A funding round led by Accel
- ▶ Pranos Fusion raised \$6.8 million in a seed funding round
- ▶ Co-founder of Abyom SpaceTech selected in Forbes 30 Under 30 Asia 2025
- ▶ Sustainable Investment Platform SustVest raised \$1.7 Million in Pre-Series A Round

- ▶ Grey Orange is a 'soonicorn' valued at \$800 million
- ▶ Recently 3 of our incubatees have raised angel funds, with a valuation of \$500 K+ each
- ▶ Pepper Content raised Series A funding, with a valuation of \$80 million+
- ▶ TapChief was acquired by Unacademy for ₹100 Cr.



## BITS Pilani Foundation for Advisory Consultancy Technology Transfers (BITS-FACTT)

Strive Towards Innovation and Entrepreneurship

BITS Foundation for Advisory, Consultancy & Technology Transfers (BITS-FACTT) is the dedicated technology transfer and commercialization arm of BITS Pilani, established as a Section 8 not-for-profit company to accelerate the translation of research into real-world impact. BITS-FACTT serves as the bridge between academia and industry by facilitating intellectual property (IP) management, technology licensing, industry partnerships, consultancy, startup support, and innovation-driven collaborations.

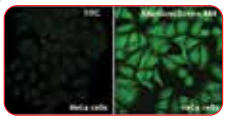
### Accelerating Research & Innovation

BITS-FACTT is committed to accelerating the translation of research and innovation into real-world solutions by:

|                                                                                                                                                            |                                                                                                                                                                                     |                                                                                                                                                                                 |                                                                                                                                                                 |                                                                                                                                                                                            |                                                                                                                                                                        |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  <p>Protecting and commercializing BITS Pilani intellectual property.</p> |  <p>Building partnerships across academia, industry, government, investors, and entrepreneurs.</p> |  <p>Supporting technology transfer, licensing, startup creation, and business development.</p> |  <p>Driving industry sponsored research, consultancy, and co-development.</p> |  <p>Strengthening the innovation ecosystem through advisory, policy support, and capacity building.</p> |  <p>Creating lasting value for inventors, industry, the Institute, and society.</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

Contact: [factt.team@bits-pilani.ac.in](mailto:factt.team@bits-pilani.ac.in) | [www.bits-pilani.ac.in/bits-factt](http://www.bits-pilani.ac.in/bits-factt)

### BITS Technologies

|                                                                                                                                                                      |                                                                                                                         |                                                                                                                                                                             |                                                                                                                                                          |                                                                                                                     |                                                                                                              |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
|  <p>Green fluorescent molecular probes for cellular imaging and flow cytometry</p> |  <p>RightBiotic</p>                   |  <p>Portable Real-Time Colorimetric Qualification System for Environmental Monitoring</p> |  <p>Intelligently Stirred Thermophilic Anaerobic Reactor (iSTAR®)</p> |  <p>Electronic Nasal Filter</p> |  <p>Herbal mouthwash</p> |
|  <p>Oral Compositions of Posaconazole</p>                                         |  <p>A biodegradable ocular patch</p> |  <p>InstaDerm</p>                                                                       |  <p>3D-printed below-knee prostheses</p>                            |                                                                                                                     |                                                                                                              |

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## Towards Commercialization: Lab2Market

### BITS Licensees

|                                                                                                                           |                                                                                                                              |                                                                                                           |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
|  <p>Gplan Services Private Limited</p> |  <p>Atreves Healthcare Pvt. Ltd</p>       |  <p>GREEN CARBON</p>   |
|  <p>VitalProbe Inc.</p>                |  <p>W</p>                                 |  <p>GreenShift</p>     |
|  <p>FSB</p>                            |  <p>NEERTECH</p>                          |  <p>XBTS</p>           |
|  <p>seva.org</p>                     |  <p>Birdeye</p>                         |  <p>HIGHNESS™</p>    |
|  <p>Panacea Biotech</p>              |  <p>ANYA CAPITAL HOLDINGS</p>           |  <p>Reddonatura™</p> |
|  <p>SEHGAL FOUNDATION</p>            |  <p>Alicorn Medical Private Limited</p> |  <p>ZERNYX™</p>      |

### Tech Transfer to Venture Creation

|                                                                                                                          |                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
|  <p>CLEOME INNOVATIONS</p>            |  <p>ZERNYX™</p> |
|  <p>3DProsthetics</p>                 |  <p>FSB</p>     |
|  <p>W</p>                             |  <p>W</p>       |
|                                     |  <p>bi</p>    |
|  <p>EPIONE SWARAJ SOLUTIONS LLP</p> |  <p>XBTS</p>  |

# Recent Collaborations



Centrale Supélec,  
France



Dresden University of  
Technology, Germany



KU Leuven,  
Belgium



UK India Business Council



Universidad Autónoma  
del Perú, Perú



University of Groningen,  
The Netherlands

# Collaboration Opportunities

1

**JOINT APPLICATIONS**  
Various funding organizations - public and private

2

**SUPPORT / SPONSORSHIP**  
Cooperative seminars, workshops & training, skill development and human resource development

3

**EXCHANGE**  
Students (UG, PG, PhD) and Faculty Secondment

4

**CENTRE OF EXCELLENCE**  
Support for establishing CoE in new emerging technologies with focus on company's area of interest

5

**DEVELOPMENT**  
'Next' generation tech, services for industrial clients in areas AI/ML, augmented reality, geospatial solutions, cyber security

6

**CONSULTANCY & CSR SUPPORT**  
For Research Augmentation

7

**TECHNOLOGY TRANSFER**  
Mutual engagement to explore technology licensing of BITS's existing intellectual property and / or know-how

8

**TECHNOLOGY IMPROVEMENT**  
Evaluation and Improvement Technology Readiness Levels (TRLs)



innovate

achieve

lead



# BITS Pilani

Pilani | Dubai | Goa | Hyderabad | Mumbai

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