



*Towards Leadership in  
R&D and Innovation:  
IITMRP makes Chennai Ready?*





# Innovation thrives when unlike minds meet....

- highly knowledgeable experienced faculty
- experienced industry R&D personnel, who know how to convert a prototype into a commercial product
- young minds / students, who do not know that it cannot be done – *would work 20 hours a day, pursuing the “impossible”*

Simply Innovate to  
Survive



# We created IITMRP: An Innovation ecosystem

— aided by...

— Start-ups

— Centres of Excellence in technologies

— Fortified by a top-quality Academic Institute, its research scholars, laboratories, its seminars, workshops, conferences and more...

— ***where young minds hangout with experienced stalwarts in a formal / informal way***



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# IITMRP - a fully evolved *Innovation Support System*

- Experienced faculty of **650++**
- 350+ Speciality laboratories and experts of IITM

## Industry R&D Centers

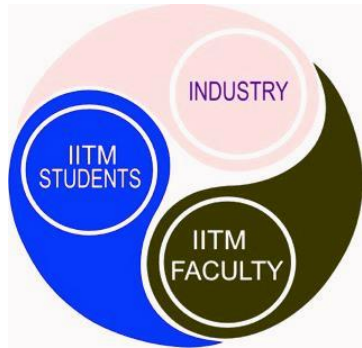
- Industry taps multi-disciplinary Faculty expertise & Student skills (hire)
- Obligated to earn specific credits per sqft of area rented
- Credits through joint R&D work with IITM
- Earning credits included in appraisals of Center management
  - Impacts their variable pay

## IITM's Centers of Excellence


- Centers run substantially on revenue from industry
- where **industry personnel work along with center staff**
- and **commercialisation a key focus**
  - HTIC, CeWIT, TCOE, CBEEV, AMTDC, CAAR, ICCW, CUBE

## Deep-Tech Start-up Incubation eco-system

- 4 IITM Incubators: **IITMIC**, RTBI, Bio- & MedTech incubators
- **170** companies
- Shared space within Incubators (free) in early years
  - Followed by low-rentals for 3yrs in IITMRP



Cost Cutting is just not enough anymore



## A few examples of IITMRP's Industry Academia Collaboration



NDA REQUIREMENTS DO NOT PERMIT DISCLOSURE



## Saint Gobain

- Started operations at IITMRP in 2016 – (120K sq.ft)
- Collaboration with 20+ IITM faculty members across disciplines –
  - Key areas: Acoustics, grinding wheel surfaces, design for abrasive products, glass for automotive, low cost rapid housing using Gypsum panels
  - 21 projects undertaken with IITM
  - Early results: SGRI has launched 20+ new products



IITMRP is at their  
Heart of Innovation

## Some more of our key R&D patrons

### BHEL R&D Gateway

- Completed 62 projects so far
- Implemented 33 commercially

### TCS

- Data Centre Power Reduction, Energy Consumption in High-Rise Buildings, Smart Water Network
- *Generated 10 patents so far*

### Vortex Engineering

- Developed world's lowest power consuming ATM

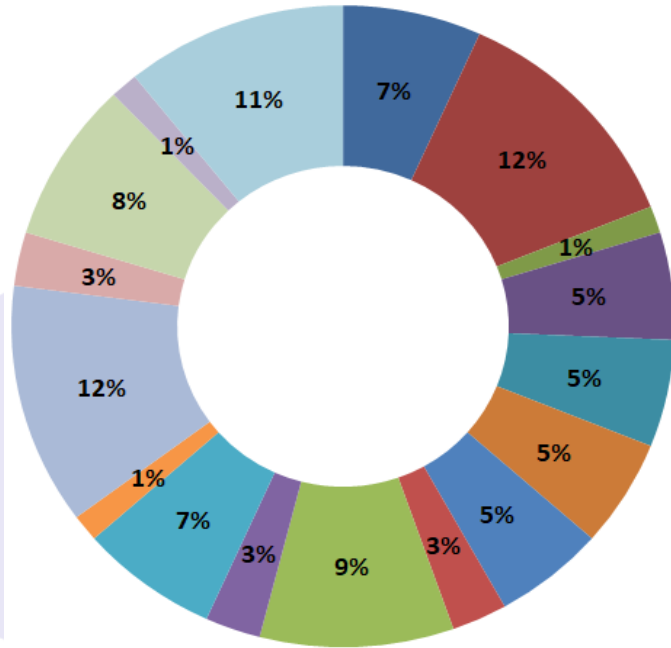
### Centre for Automotive Energy Materials

- Commissioned India's first pilot plant for Lithium-ion battery line for EVs/HEVS



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# Breadth and Character of our clients



- Automotive Energy/Automobile (7%)
- Big Data & Analytics (12%)
- Bio Process (1%)
- Bio-Medical Device (5%)
- Education Technology (5%)
- Financial Services (5%)
- Incubators (5%)
- IP Services (3%)
- ITES & Consulting (9%)
- Materials & Metallurgy (3%)
- Mech Eng & Design (7%)
- Power (1%)
- Product Eng & Design (12%)
- Professional Bodies (3%)
- Social Enterprise (8%)
- Technology & Policy (1%)
- Telecom (11%)

- Global Corporates includes..
- Tata Elxsi
- Ashok Leyland
- ARCI
- Cognizant
- DRDO
- Saggezza
- Yalamanchili, and more...





What do our  
Patrons  
say about us?

## Finally this counts ...



*In our first three years of implementing the model (industry academia partnership), we have already seen handsome commercial benefits and have launched 22 profitable new products and solutions.*

“”



Our Family of Innovators



*Engaging with the IIT Madras Research Park will accelerate our goal of providing ‘cutting-edge’ engineering solutions to our Customers.*



*We also get an opportunity to engage and mentor start-ups doing interesting work here.”*

“”



# Thank you!

Let's stay connected

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