

**IIT MANDI**  
**PLACEMENT BROCHURE**  
**M.Tech**  
**VERY LARGE SCALE**  
**INTEGRATION (VLSI)**  
**2025-26**



**INDIAN INSTITUTE OF TECHNOLOGY, MANDI**

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**INDIAN INSTITUTE OF TECHNOLOGY, MANDI**



# | From the Director



**Prof Laxmidhar Behera**

Director, IIT Mandi

I am pleased to welcome you to IIT Mandi, which is located on the 538-acre picturesque river valley in the Shivalik Range. Since its inception in 2010, IIT Mandi has consistently worked to nurture professionals with industry-ready skills. We achieve this by periodically revising the curriculum in consultation with academic and industry experts to keep it relevant to the fast-changing global human resource needs. Academic excellence is our greatest strength. Students are introduced to practical learning with innovative pedagogy very early into the training. This ensures that they are better prepared to succeed in ambitious corporate environments. We provide a learning environment to allow individuals to express their passion and apply their innate abilities to solve real-world problems.

In the first year, the B.Tech. students participate in the Foundations of Design Practicum: Robotics and Reverse Engineering course which introduces them to existing engineering systems with hands-on experience. Design Practicum introduced in the second year to our B.Tech. students enables them to get exposure to real-world engineering problem-solving with interdisciplinary collaborations. With a budget of Rs. 25,000, award-winning projects include an intelligent drip irrigation system, a 3D printer, an autonomous garbage collector, etc. Socio-Technical Practicum introduced during B.Tech. 3rd year provides exposure to the impact of new technologies on society, often doing fieldwork in villages and towns in the neighborhood. Typical projects include alleviating traffic congestion in Mandi town, mechanization in terraced farms in the Himalayas, and education and livelihood for village women. These interdisciplinary and group projects build up perseverance, leadership, connection with society, and the opportunity to apply their technical skills.

The M.Tech. and M.Sc. degree programs contain a substantial component of thesis work relying heavily on practical learning aspects for over two semesters. In this open-ended thesis, students learn to work independently and in great depth on a research problem. The thesis contains globally novel contributions to the discipline in some aspects. Thus, the Master's graduates are well suited to take a lead role. The institute also encourages the student to explore collaboration and to work on projects guided by industry experts for their thesis. Research by our MS and Ph.D. students has achieved global recognition in international journals and conferences.

*Continued on next page...*

# | From the Director

In addition, the diaspora of student-driven extracurricular activities creates a lively learning environment and provides leadership abilities and confidence in our students. All this is impossible without the support of our able faculty, who give a holistic learning experience with their excellent teaching and exposure to cutting-edge research and publication in the best international scholastic journals. We have a total faculty strength of 189 active in research and teaching in several areas of engineering, sciences, and the humanities. Faculty have received research grants totaling over Rs. 160.7 crores and the Institute has invested heavily in developing state-of-the-art lab infrastructure. Our faculty members are also involved in mentoring startups supported by our Technology business incubator, IIT Mandi Catalyst. The IIT Mandi Catalyst supported 460+ startups and disbursed about INR 20+ crores for prototyping and commercialization of diverse start-ups in clean energy, environment, health care, agriculture, enterprise management, biotech, education, manufacturing, and consumer internet. The fact that about 37 of the total start-ups have been founded by the IIT Mandi faculty, staff, and students underlines the innovative and entrepreneurial spirit of IIT Mandi once again.

The IIT Mandi alumni have done extremely well, as evident from receiving the youngest scientist award in the Indian Science Congress, INYAS award, etc. Our current alumni strength is over 1513 B.Tech, 114 MS, 509 M.Tech, 392 MSc, 48 MA, and 8 I-Ph.D., and 288 Ph.D. graduates. Our alumni have excelled in different spheres of academia, industry, and central government administration, thanks to our innovative curriculum. Most of these alumni have been hired by top multinational companies, a few have chosen higher studies in leading universities and several of them are serving different administrative positions in the Govt. of India including IAS.

On behalf of the faculty and students of IIT Mandi, I invite you to participate in our placement process. I am confident that you will find it a rewarding experience!

Prof. Laxmidhar Behera  
Director, IIT Mandi



# | From the Faculty Advisor



**Dr. Kala Venkata Uday**

During the short span of fourteen years of its existence, the Indian Institute of Technology Mandi (IIT Mandi) has gained a reputation for its cutting-edge research and innovative teaching programs focusing on up-to-date scientific knowledge and state-of-the-art technological know-how in their respective disciplines. The institute prides itself on creating an environment that empowers young minds by developing intellect and versatility, broadening horizons, creativity and honing interpersonal skills with the help of our top-notch faculty and staff. With the intent of shaping the students into responsible engineers and scientists, the unique curriculum at IIT Mandi strives to expose students to strong fundamentals of engineering, basic sciences and humanities while simultaneously sensitizing them to human values and society. Similarly, the institute's focus on research at the fore-fronts of various areas of science and technology has resulted in significant contributions and responsible researchers.

Apart from the technological development of our students, they also participate/organize in a multitude of extra-curricular activities, which exposes them to and tests their skills in sports, culture, dramatics, and music and allows them to develop a healthy overall personality. This has brought several awards to the institute at national and international levels. The students also gain first-hand experience in organizing and managing events through various leadership positions they take up during several annual events organized at IIT Mandi.

The Career and Placement Cell (CnP) invites organizations that have recruited our alumni and have witnessed them deliver well on high expectations placed on them, as well as those whom our students have not yet got an opportunity to serve. The CnP cell strives to facilitate the best possible match between the aspirations of recruiting organizations and the abilities of our students. We welcome suggestions from your organization that will help us realize it. On behalf of the CnP team at IIT Mandi, I assure you of the prodigious talent of our students and feel privileged to invite your esteemed organization to recruit our students. We look forward to the enthusiastic participation of your organization in our 2025–2026 campus placement process and a lasting and mutually satisfying relationship with your organization.

**Dr. Kala Venkata Uday**

Faculty Advisor



# | About IIT Mandi

Indian Institute of Technology, Mandi is a premier public technical and research institute located in the Mandi district of Himachal Pradesh. It was established in 2009 and is recognized as an Institute of National Importance under the Institutes of Technology (Amendment) Act passed by the Indian Parliament in 2012. It imparts to its students a world-class education, a plethora of opportunities to pursue and excel in all kinds of fields and research, and an extraordinary campus life to cherish forever. It's a prestigious and picturesque campus at the foot of the Himalayas.

The institute boasts state-of-the-art infrastructure, excellent campus facilities for all residents and a highly sophisticated array of laboratories and research facilities to support cutting-edge research and scientific pursuits. All these elements come together and mold students into highly competent professionals, technocrats, and leaders of the world.





# School of Computing and Electrical Engineering

**VERY LARGE-SCALE  
INTEGRATION (VLSI)**

# Very Large Scale Integration (VLSI)

DIGITAL MOS LSI CIRCUITS



RECONFIGURABLE COMPUTING

CMOS DIGITAL IC DESIGN  
PRACTICUM



DIGITAL VLSI ARCHITECTURE

MICROELECTRONICS  
DEVICES AND MODELING



CMOS ANALOG IC DESIGN

VLSI TECHNOLOGY



MIXED SIGNAL VLSI DESIGN

RF AND MICROWAVE  
INTEGRATED CIRCUITS



BIOMEDICAL SYSTEM

EMBEDDED SYSTEM  
DESIGN



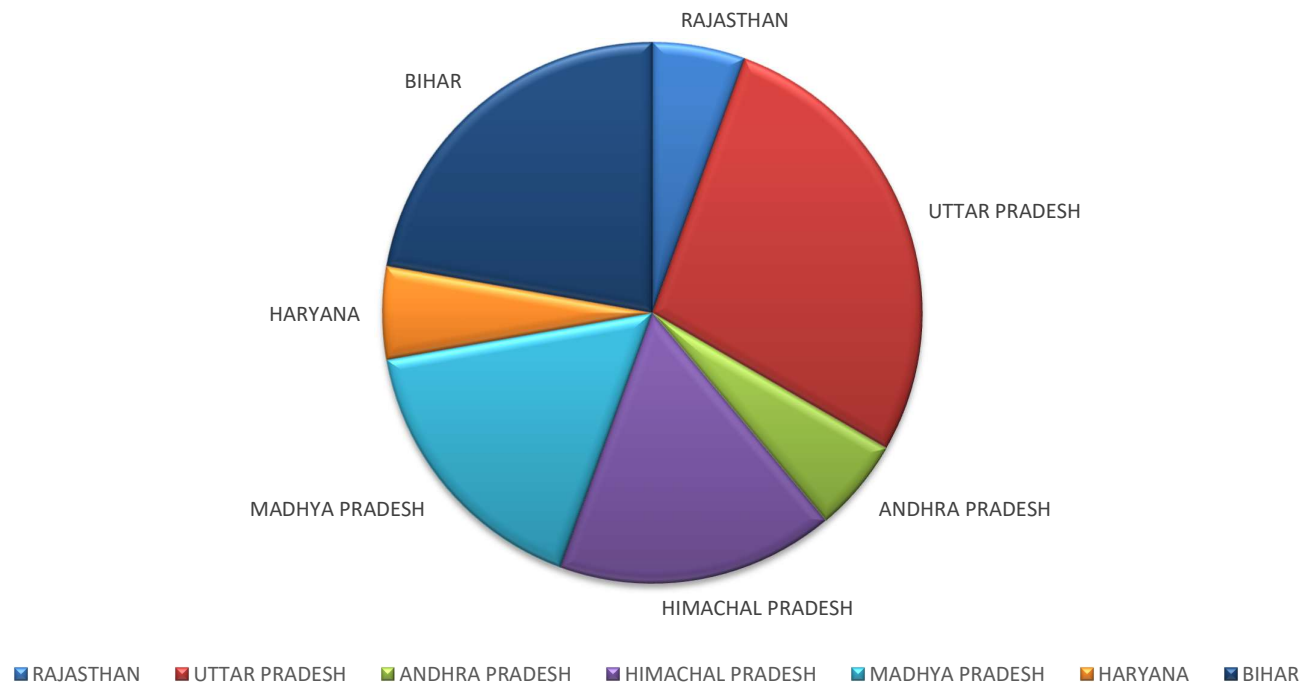
NANO ELECTRONICS AND  
MICROFABRICATION





# | M.Tech (VLSI) Student's Demographics

M.Tech( VLSI) INDIAN STATES STUDENTS

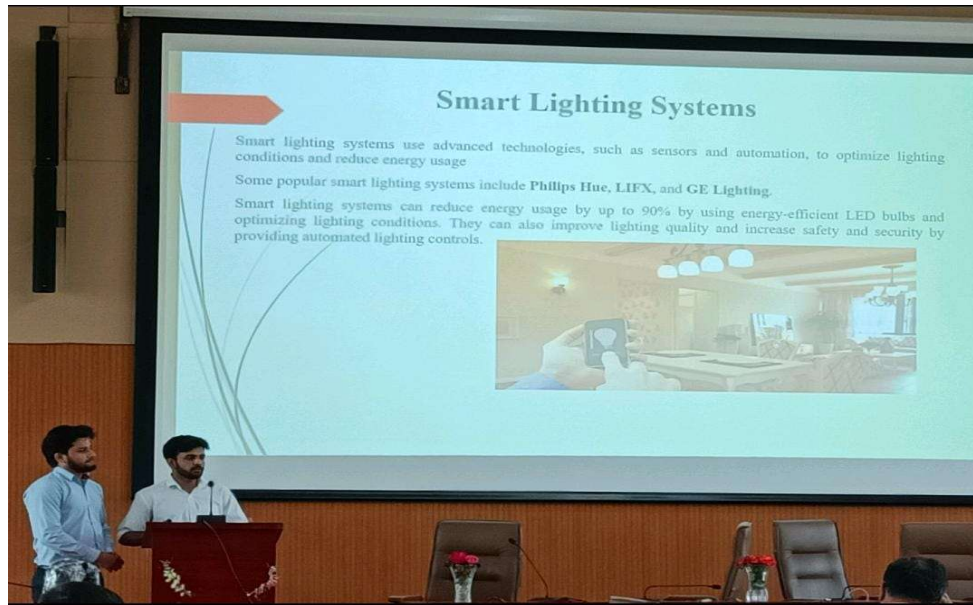


# | Student Activities

The student clubs at IIT Mandi cater to diverse interests and enable the all-around development of the students. Majority of the clubs fall under the Student Gymkhana with students being club coordinators for various societies, namely Science and Technology Council (SnTC), Cultural Society, Sports Society, English Debating, and Literary Society.

## Technical Society

The technical society of IIT Mandi or Science and Technology Council (SnTC) IIT Mandi consists of several technical clubs. The unique feature of the Institute's Technical Society is that all the clubs support open participation. All the students are free to join a club at any point in time and dedicated students are rewarded with experience. Members of the technical society also enthusiastically represent the college in national and international events bring laurels for the Institute.



## Smart Energy Monitoring and Lighting System

Proposed an innovative solution titled "Efficient Energy Management through Smart Lighting and Energy Monitoring Systems" at the innovation competition on Energy Conservation and Efficiency. Presented during Energy Conservation Week at IIT Ropar, organized by the Punjab Energy Development Agency. The idea emphasized real-time monitoring and smart control for improved energy efficiency.



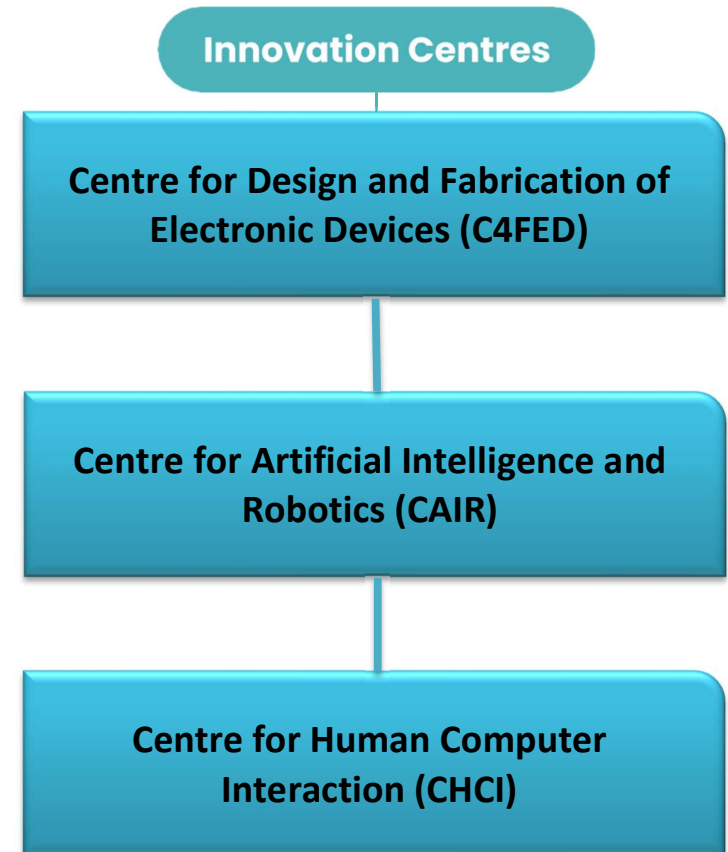
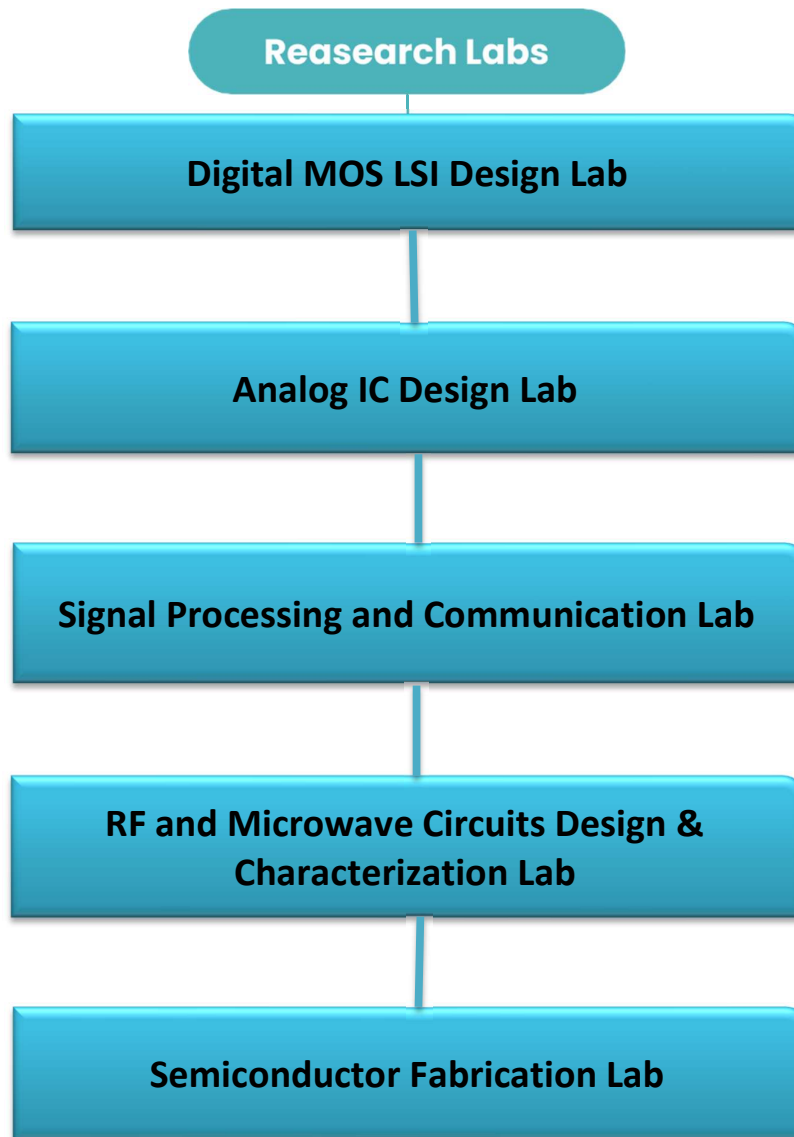
# Student Activities

**Reconfigurable KECCAK Architecture for Post-Quantum Cryptography.**

Developed a reconfigurable, hardware-efficient KECCAK architecture with integrated SHAKE functions and dynamic input processing for post-quantum cryptographic applications. Presented as an oral presentation at the 2025 International VLSI Symposium on TSA, Hsinchu, Taiwan. The design balances performance, flexibility, and security for next-generation cryptographic systems.



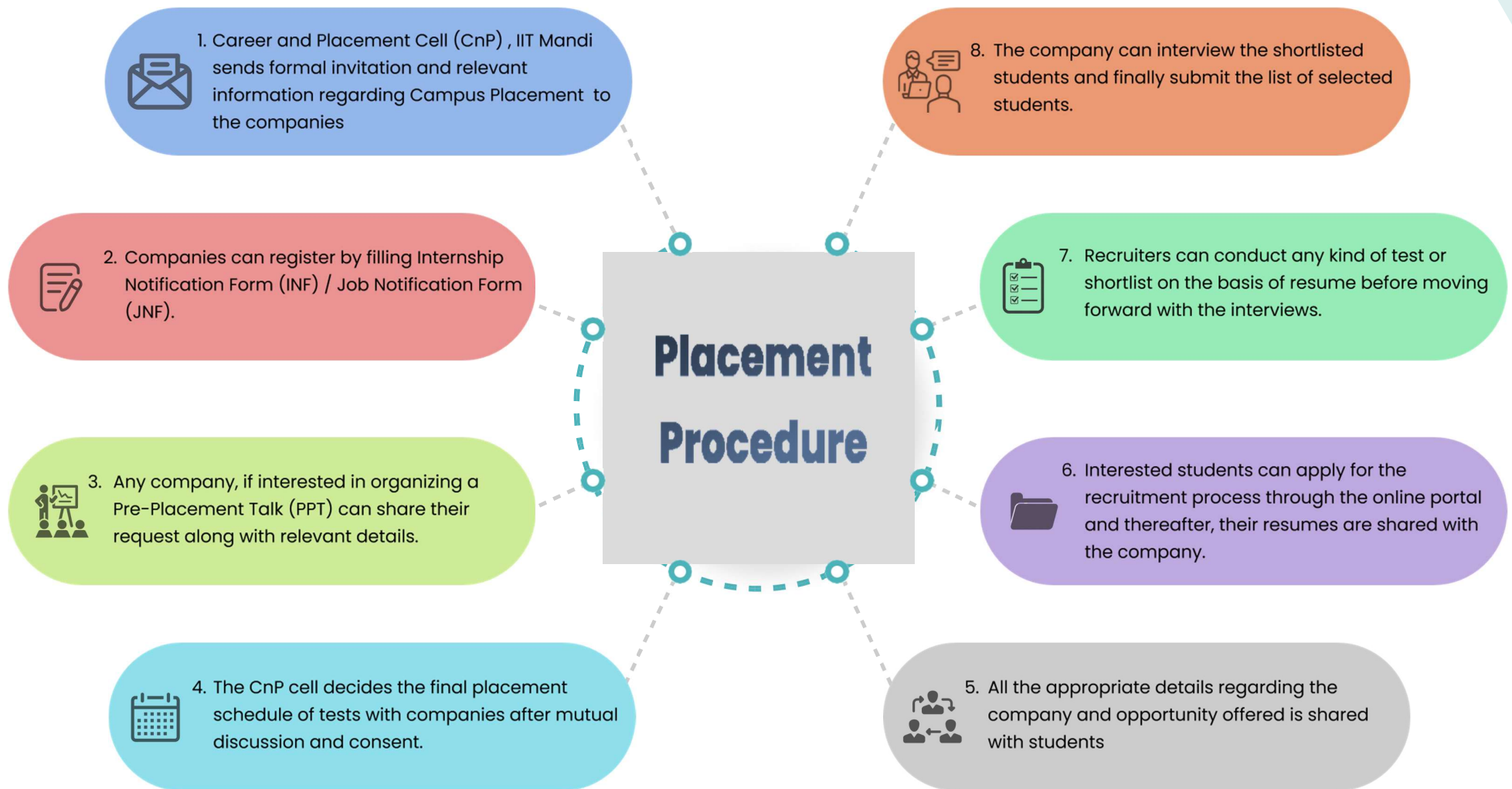
# | RESEARCH LABS AND CENTERS





# | Our Recruiters

- A** Aakash Byju  
Aakash+Byju  
Accenture  
Accolite  
ACE  
Achnet  
Addverb  
Aditya Birla  
Adobe  
Algo university  
Amazon  
AMD  
Applied materials  
APT portfolio  
Arista Networks  
Aspire IIT  
Atom One Company  
Attentive AI  
Avanti fellow  
Axestack Software Solutions Pvt Ltd  
Axtia  
Azure power
- B** Bakliwaltutorials  
BEL  
Brighosha  
Burger Singh
- C** C DOT  
Cadence  
Cashfree  
Ceremorphic  
Cisco  
Cogoport  
Credgenics  
Cubastion  
Cummins india  
Cyfuture
- D** Dash Dynamics  
De Shaw  
Decision point  
Denso  
Dolcera  
DP World  
Dyeus  
Delta Electronics
- E** Editorialist YX  
Edofora  
Evalueserve  
EVERVENT  
EXL Service
- F** FITJEE  
Flipkart  
Focus energy  
Fundsroom  
Future First
- G** GAN Studio  
GE  
GE digital  
General Electric  
GHAI  
Globallogic hitachi  
GMO  
GoldmanSachs
- H** HCL  
HDFC Bank  
Hitachi  
Honeywell  
HPCL
- I** i'm Beside you  
IBM  
ICICI Bank  
IITian's PACE Education Pvt Ltd  
Impact guru  
Indag Rubber  
Indeed  
Infosys  
Ingenico  
inmobi  
Intel  
IntelliPaaat  
Intuit  
ITRA
- J** Jaguar Land Rover(EV)  
Jaguar Land Rover(Software)  
Jio 5G  
JLR diversity
- K** KIIT
- L** L&T  
LTI  
Lumenci
- M** Mahindra and Mahindra  
MAQ  
Maruti Suzuki  
Maxlife Insurance  
Media.net  
Medibuddy  
Merapasu  
Mercedes Benz  
Merilytics  
Microchip technologies  
Miko  
Morsebiz  
Motion Pvt  
MS  
Myways
- N** Nation with Namo  
Newgen  
Newzera  
Nference  
NI  
Nimesa technologies  
Niyo Solutions  
Nohara Holdings, Inc  
Nucleus Software  
NXP semiconductor
- O** ODE  
One Geo  
Oracle  
Orchid
- P** Panel Iq  
Parallel wireless  
Parul University  
Paytm  
Pentair  
Perceptive Analytics  
Planet Spark  
Publicis Sapient
- Q** QbitsLab  
Quantsapp  
Quicksell  
Qulabs
- R** Radisys  
Rakuten  
Razorpay  
Reliance Jio  
Rippling  
Rober Bosch  
Robert Bosch  
Rohm Semiconductor  
RTDS &group
- S** Sagacious Research Pvt. Ltd  
Samsung Research Institute  
Bangalore  
Sap Labs  
Sarv  
Scaler  
Schrodinger  
Semicon  
Shipsy  
Siemens  
Siemens gamesa  
Silicon labs  
Sprih  
Sprinklr  
SRF  
Srichaitnya  
Stardour  
Statcon Electronics  
Sterlite
- T** TAQ Bit lab  
Task Tracker  
Task Tracker  
Tata IMg  
Tata Elxi  
Tata Motors  
TCS  
Tech advantage  
Tech Mahindra  
Tech Vantage  
Techladd  
Tesco  
Tetcos  
Texas instruments  
Tigris Mobility  
Transtutors  
Triology  
Truminds
- U** Uber  
Unify Tech  
Unisys  
Uttranchal University
- V** Varroc  
VECV  
Volvo  
vyas edification
- W** Walmart  
Warner Bros. Discovery  
WcB Robotics  
WCB Robotics  
Western Digital  
WSP
- Y** Yum
- Z** Zavya  
Zomato





# | Contact Us



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