Building an
Ecosystem
For Robotics & AI Sector

AICRA is focused on building the architecture integral to the development of the automation sector through policy advocacy and help in setting up the strategic direction for the sector to unleash its potential and dominate newer frontiers.

ABOUT AICRA

All India Council for Robotics & Automation (AICRA), a not-for-profit organization, is the apex body, setting up standards in Robotics & Automation in India as well as helping over 3200+ member organizations and professionals to solve difficult technical problems, while enhancing their leadership and personal career capabilities.

Established in 2014 and ever since, AICRA's relentless pursuit has been to constantly support the Robotics & Automation industry, in the latter's continued journey towards seeking trust and respect from varied stakeholders, even as it reorients itself time and again to remain innovative, without ever losing its humane and friendly touch.

VISION

In pursuit of making India a global leader in the field of Robotics, IOT and Artificial Intelligence; building an ecosystem that enables education institutions to produce best talent as well as creating workplace for them, helping industry to develop best products and creating market place to showcase.

VALUES

- Integrity
- Respect
- Effective Communication
- Value for Money
- Excellence

MISSION

- Establish India as a hub for innovation, products and technology start-ups.

- Upgrading Robotics and AI skills to international standards through significant Industry and Academia involvement.

- Enhance, support and coordinate private sector initiatives for technical skill development through appropriate engagement models.

- Play the role of a "market-maker" by bringing finances, particularly in sectors where market mechanisms are ineffective or missing.

- Be an industry platform for sharing and building best practices and collaborative engagement.

YEARS OF SUCCESS

Ecosystem Formation 2017-19

- Focused industry councils in states
- Career Development Unit (CDU) initiative for Engineers
- Project development initiative for academia
- Introduction of Robotics Literacy Program (RLP)
- Evangelizing and build robotics education and engineering R&D Sector

Foundation Year 2014-15

- Policy advocacy on robotics skills development
- launch youth oriented robotics event RoboFiesta in collaboration with IIT Gandhinagar
- Built industry vision and impact for Industry, academia and country
- Launch of flagship industry events to benefits members

Market Expansion 2019-20

- Launch of IndiaFirst StartUp Mission and build ecosystem for Tech StartUp
- Lauch of India STEM Mission and taking initiative to setup 2000 Labs across India.
- Launch of National Mission of Artificial Intelligence and Global AI Awards
- Initiative to upgrade 5000 existing computer Institutes Into Robotics Skill Center
- Foundation of AICRA publishing house. Launch of "FutureTech" magazine and FT News Channel.
- Joint project to setup Industry 4.0 CoE with NPC (DPIIT, Ministry of Commerce & Industries
- Introduced Robotics Literacy Program ('O', 'A', 'B' & 'C' Level Certification).

Industry Engagement 2015-17

- Global outreach and MOUs with International Associations.
- Curriculum design for academia in coordination with industry
- Engaged 1200+ Education Institute for technology skills development
- Catalyze industry transformation as solution partner
- Launch of World Robotics Championship series TechnoXian

01 **02** **03** **04**
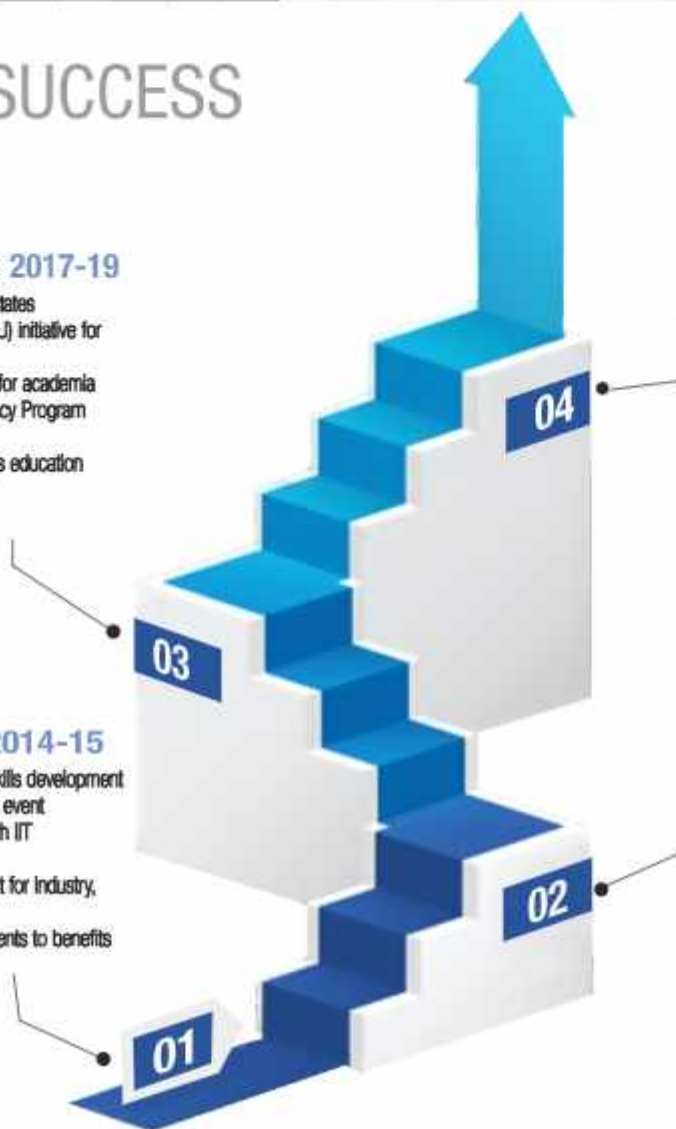
Engaging Industries, Corporates, Academia and Students

AICRA has contributed immensely to the enhancement of automation education and process standardization in the country through its myriad activities and service offerings in the areas of robotics education, research, publications and project development. AICRA helps corporate and institutions and provide a forum for mutual sharing of ideas, experience and expertise in Robotics and Automation.

The organization is focused on building the architecture integral to the development of the automation sector through policy advocacy, and help in setting up the strategic direction for the sector to unleash its potential and dominate newer frontiers.

01 GLOBAL TRADE
providing a conducive business environment to tech companies to establish and grow in India markets

02 RESEARCH & DEVELOPMENT
Facilitating to promote research and to catalyse cross-fertilization of ideas with R&D agencies

03 EDUCATION
Supporting Institution for advance skilling of technologies and certifying them

04 INDUSTRY ACADEMIA ENGAGEMENT
Join workshops, seminars and summits to exchange information and collaboration.

05 GLOBAL AI SUMMIT & AWARDS
Engagement of AI experts, Government representatives and academia. Recognizing their efforts.

06 STEM SUMMIT & AWARDS
Prestigious award in STEM education contribution. Technology exposure to academic institutions.

07 TECH STARTUP CONCLAVE
Giving exposure to tech start-ups and supporting them for technical guidance and fund raising

08 WORLD ROBOTIC CHAMPIONSHIP
Largest championship for robotics and innovations. Teams from worldwide compete and win prizes

09 ROBOLAB & CENTER OF EXCELLENCE
Setting up COE at institutes with state-of-art infrastructure supported with FDP and TTT.

10 MEDIA & PUBLISHING
FTM News Channel & Technology focused magazine covers experts testimony as well as latest development in technologies

> "AI and Robotics offer enormous potential for economic development as well as societal improvement and will be key driver of economic growth of any country. AICRA would justify its role for making largest and influential community in this field.
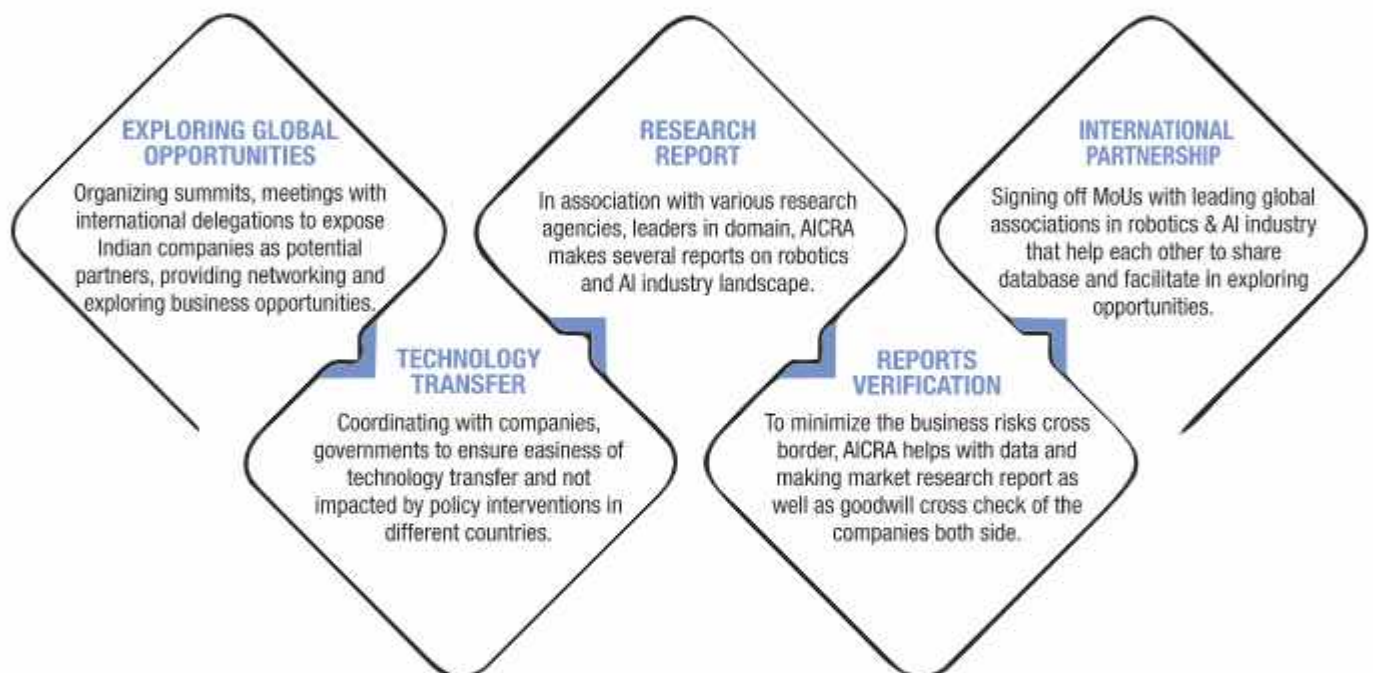
Raj Sharma
President AICRA

GLOBAL TRADE
DEVELOPMENT

The Global Trade Development initiative at AICRA aims to provide a conducive business environment to technology oriented companies (dealing in robotics, automation, artificial intelligence) to establish and grow in Indian markets. Through market development opportunities, policy interventions and alliances, the initiative helps the industry to build stronger and deeper relationships with overseas clients and other local stakeholders. The AICRA Global business team deploys a multi-format, multi-stakeholder approach to raise awareness about the Indian Tech industry globally. In doing so, we leverage our existing collaborations across stakeholders e.g., Governments, member companies, industry associations and customer organizations worldwide.

EXPLORING GLOBAL OPPORTUNITIES

Organizing summits, meetings with international delegations to expose Indian companies as potential partners, providing networking and exploring business opportunities.

RESEARCH REPORT

In association with various research agencies, leaders in domain, AICRA makes several reports on robotics and AI industry landscape.

INTERNATIONAL PARTNERSHIP

Signing off MoUs with leading global associations in robotics & AI industry that help each other to share database and facilitate in exploring opportunities.

TECHNOLOGY TRANSFER

Coordinating with companies, governments to ensure easiness of technology transfer and not impacted by policy interventions in different countries.

REPORTS VERIFICATION

To minimize the business risks cross border, AICRA helps with data and making market research report as well as goodwill cross check of the companies both side.

RESEARCH &
DEVELOPMENT

AICRA has constituted research boards to nurture and harness talent in academic institutions, universities, R&D centres and industry. The organization provides necessary facilities for promoting basic research and to catalyse cross-fertilization of ideas with R&D agencies in other sectors for expanding and enriching the knowledge base in their respective areas. The boards also facilitate in getting grants-in-aid through CSR initiative for collaborative future technologies-related futuristic frontline researches.

EXTRAMURAL RESEARCH

Securing IPR activities of AICRA and its allies for all research work.

RESEARCH PARTNERSHIP

Associating with domain experts and progressing combined research.

PROJECT COMMERCIALIZATION

Project certification and making them ready to be commercialized for

EDUCATION & CERTIFICATION

To strengthen supplementary skill development, AICRA focuses on fostering private sector led efforts that include both non-profit and for-profit initiatives with the goal of building models that are scalable. AICRA is working towards setting up state-of-art institution for advance skilling of technologies, upgrading existing academic institutions to deliver technology programs and conducting exams to certify skilled manpower to industry.

NIRA | National Institute of Robotics & AI

A pioneer institute in advance technology programs that is building work-force ready for future entrepreneurship and jobs for global industry requirements. The institute, established in 2019 to help the nascent Robotics, IOT and AI industry for its future need of human resource, offers multi-disciplinary learning management and training delivery solutions to corporations, institutions, and individuals across.

RSC | Robotics Skill Centre

The project is aimed at upgrading existing vocational IT training centers, Engineering Colleges to execute trainings for AICRA certified programs without increasing CAPEX. Selected centers will be provided Train-the-Trainer (TTT) program without charges, arranging equipments at affordable price and certifying learners for future job roles.

RLP | Robotics Literacy Program

In order to inculcate the spirit of Innovation in young learners and professionals, AICRA has started robotics literacy programs and conduct the exam for the same. AICRA RLP Certificate (O, A, B and C Level) programs encourage professionals to challenge their limits and further extend their abilities as well as gets them privilege in industry jobs.

INDIA STEM
MISSION

INDIA STEM
SUMMIT &
AWARDS
STEM Contribution Awards & Conference

India STEM Summit and Awards is the most prestigious platform for honoring excellence in Science, Technology, Engineering, Mathematic, and building & reinforcing networks. The STEM summit is the place where thousands of India's finest minds gather, from top executives and innovative professionals, to the brightest STEM educators. The AICRA STEM summit provides information on cutting-edge developments in all areas of STEM research from bench to bedside.

- ACADEMIC INDUSTRY ALLIANCES AND MOU SIGN OFF
- NETWORKING WITH INDUSTRY LEADERS CXOs & DECISION MAKERS
- SHOWCASING STEM SUPPLIES, PRODUCTS & SERVICE
- KNOWLEDGE SHARING BY STEM EXPERTS AND POLICY MAKERS
- EXECUTING AICRA'S STEM ROLL-OUT PLAN YEAR ON YEAR
- UNDERSTANDING GOVERNMENT SCHEMES POLICIES AND INITIATIVES ON STEM

NATIONAL MISSION
OF ARTIFICIAL INTELLIGENCE

GAISA is the platform for exchange of deep actionable insights into the world of Artificial Intelligence and its impact on businesses. Being already called the 4th Industrial Revolution, AI has far reaching implications on the corporate world. AICRA takes pride to introduce India's first global platform, which is focused on real world scenarios to analyze the various ways, AI may influence human lives and industries.

Eos, Data Leaders and AI Pioneers from world's leading organizations across sectors gather together at this platform. The secrets of AI that almost make it sound mythical and the advantages that it can bring to businesses are discussed in detail.

INDIAFIRST
STARTUP MISSION

IndiaFirst Tech Start-up series is aimed to encourage technology startups and AICRA members to work together and create partnerships that is beneficial to both the stakeholders. It's an opportunity for new age start-ups to give them a platform to connect with Industry's best business leaders and the brightest minds to explore how to fuel their business growth. The conclave brings together the speakers, who are the best breed of entrepreneurs, innovators, venture capitalists, government department's representatives, business model creators, consultants, policy-makers, academicians, support groups, business coaches, business practitioners to present & discuss innovation and success so that youth empowerment and new age tech business ideas can grow.

Development Support
- Prototype creation
- Connecting with industry expertise
- Sourcing materials & equipment

Ecosystem Enablers
- Connecting with Accelerators/ Incubators
- Industry specific B2B events
- Start-up awards for recognition
- International tie-ups

Funding Support
- Connecting with Accelerators/ Incubators
- Industry specific B2B events
- Start-up awards for recognition
- International tie-ups

Marketing Support
- AICRA Publication house
- Product showcasing during Exhibitions
- Utilizing AICRA business network for expansion

IIF
India Innovation Forum

India First Awards, B2B Meetings

India First Awards, B2B Meetings

India First Stage, B2B Meetings

IndiaFirst TECH START UP 23 CONCLAVE & AWARDS

INDIA
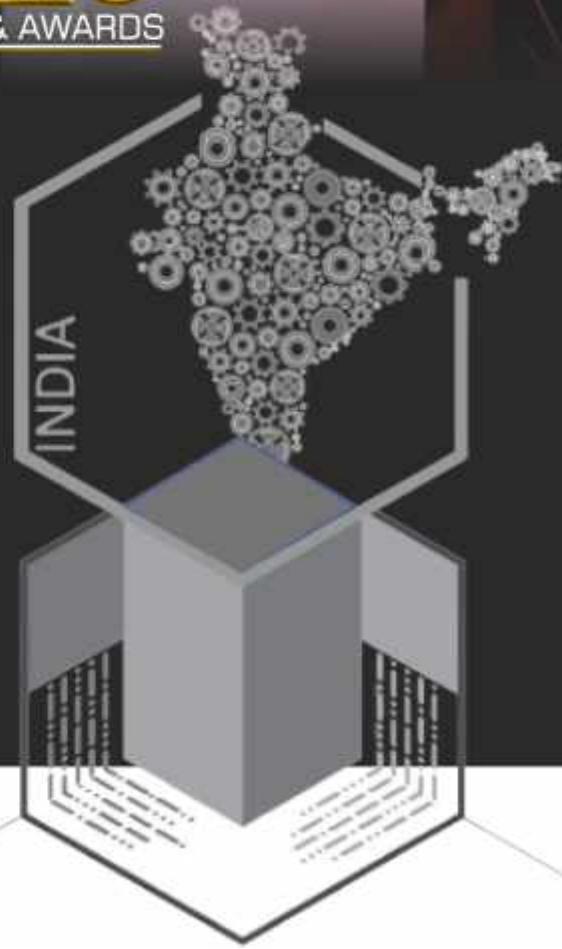
TECHNOXIAN

2018
Thyagraj Stadium, Delhi
13 Countries
1902 Teams
21520 Participation
15000+ Visitors

2019
Thyagraj Stadium, Delhi
18 Countries
2952 Teams
28380+ Participation
18000+ Visitors

2017
I.G. Stadium, Delhi
12 Countries
1852 Teams
16760 Participation
12000+ Visitors

2022
I.G. Stadium, Delhi
15 Countries
2835 Teams
32000+ Participation
25000+ Visitors

2015
IIT, Delhi
7 Countries
1202 Teams
6010 Participation
8000+ Visitors

2014
IIT, Gandhinagar
3 Countries
558 Teams
3290 Participation
4500+ Visitors

TECHNOXIAN
WORLD ROBOTICS CHAMPIONSHIP

TechnoXian is world's largest competition platform for robotics and technology enthusiasts which is supported and recognized by various countries' Government. In India it's supported by Ministry of Electronics & Information Technology and Department of Science & Technology. Participants and winners are awarded by AICRA.
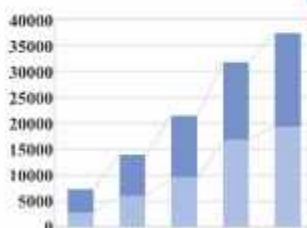
■ Participants   ■ Visitors

WORLD ROBOTICS CHAMPIONSHIP

- In past 6 editions, TechnoXian has engaged more than 1.5 millions of youth.

- The world's largest robotics championship series has 9 categories of challenges including Bots Combat, Robo Race, Robo Soccer, Maze Solver, Fastest Line Follower, Drone Racing, RC Plane Racing, Water Rocket and Innovation.

- INR 5millions worth awards allocated to winning teams.

TECHNOXIAN
WORLD ROBOTICS CHAMPIONSHIP

Date: Aug 22, 2022

RUNNER UP

15,000/-
Rupees

INDIA STEMLAB &
I-4.0 CENTRE OF EXCELLENCE

india STEM MISSION

Technologies involved in Industry 4.0 opens up a plethora of opportunities for youngsters. Industry 4.0 education in India is an emerging field and along with high interest and demand among the students the potential is immense.

AICRA and National Productivity Council (DPIIT, Ministry of Commerce & Industry, Govt of India), jointly executing project to setup on-campus Centre of Excellence (CoE) at universities and colleges across India to imbibe and empower in new disruptive technologies of Industry 4.0. The training modules have been designed keeping in mind the course structure followed by different universities and colleges and the requirement of different industries.

INDUSTRY 4.0 CENTRE OF EXCELLENCE

Educational institutions must seek the support of industries and research institutions to pave the way for an innovative learning environment through strategic alliances. COE help create facilities in the frontier areas of science and technology for world-class research.

CENTER of EXCELLENCE INDUSTRY 4.0

INDIA STEM LAB

The objective of the India STEM Lab is to provide the learners a comprehensive coverage of the theory and practice in the area of Science, Technology, Engineering & Maths to prepare them to take up advanced research. The learning modules comprises advance level of knowledge of components, software, design and creative thought process that helps learners to develop projects.

india STEM LAB

01.
AICRA Certified Modules

Students would learn and make projects as per modules approved by AICRA. Industry collaboration to upscale the learners experience

02
TRAINING Support

Learners will be provided virtual and on-campus training sessions by experts. On premise internships and Faculty development programs

03.
PROJECTS
Based Learning

Throughout year, learners will be making projects in each module. Innovation Research in the area of Robotics, AI, IoT, RPA, ROS etc.

04.
ZERO Inception Cost

Options to setup Labs without initial investment. World class infrastructure to build Industry 4.0 technologies' projects

05.
INTERNATIONAL Exposure

Selected projects developed by Lab members can be showcased at international platforms

06.
ENTREPRENEURSHIP

Incubation center for budding entrepreneurs. They can make and showcase to potential investors.

PUBLISHING & MEDIA

Published by AICRA and distributed 12 times per year to its nearly 18000+ members to various Government Departments, Industrialists, CXOs, Educationists and Scholars, FutureTech mission is to inspire professionals with ideas and empower them with the knowledge they need to change the world. They access articles on a wide variety of latest technology topics, including their engagement in various activities.

Discussion Forum
Valuable from a social analytic standpoint to get candid view of the issue topic. Also using content to be leveraged into better enterprise decision workflows.

FT Media
covers daily updates on technology related developments, government policies, economic impacts etc. It also covers live interviews of leading scientists, technology contributors and decision makers across.

FT Awards
It's created in 2021 to honor and generate public recognition of the achievements and positive contributions of organizations and working professionals, scientists in India.

FTM FUTURETECH MEDIA

INDIA'S NEW SUBMARINE

Let's
Connect

We believe that robotics and artificial intelligence (AI) is a transformational technological development with the potential to disrupt a range of industries over the coming decades. Join AICRA community to be a part of progressive journey.

◆ **MEMBERSHIP**
membership@aicra.org

◆ **INDUSTRY/TECHNOLOGY PARTNER**
partner@aicra.org

◆ **PUBLICATION**
contact@futuretech.media

◆ **CENTRE OF EXCELLENCE & STEM LAB SETUP**
nxr@aicra.org

◆ **DISTRICT/STATE COORDINATOR**
coordinator@aicra.org

◆ **CORPORATE SOCIAL RESPONSIBILITY**
csr@aicra.org

◆ **EVENTS SPONSORSHIP**
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AICRA
All India Council For Robotics & Automation

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