



ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH

An Institution of National Importance established by an Act of Parliament

About AcSIR

The Academy of Scientific and Innovative Research established by an act of parliament as an Institution of National Importance under the guidance and strengths of the Council of Scientific and Industrial Research (CSIR). One of the important purpose of AcSIR is to achieve a seamless integration of intellectual strengths in multidisciplinary areas with societal needs.



The Mission of the Academy is to create highest quality personnel with cross-disciplinary knowledge, aiming to provide leaders in the field of science and technology

AcSIR is currently the largest educational institution in India for Doctoral Research in STEM, having awarded 624 Ph.D. degrees in 2023 and with more than 7500 students currently enrolled in the Ph.D. program

RANKING OF AcSIR in 2023



In Research Category



In India



In India



SEVENTH CONVOCATION, 7th November 2023

AcSIR AT A GLANCE



Largest Higher Education Institution in India
(81 Campuses across India)



Joint PhD Program with International Universities
(3 Universities from Australia)



~8000 students enrolled

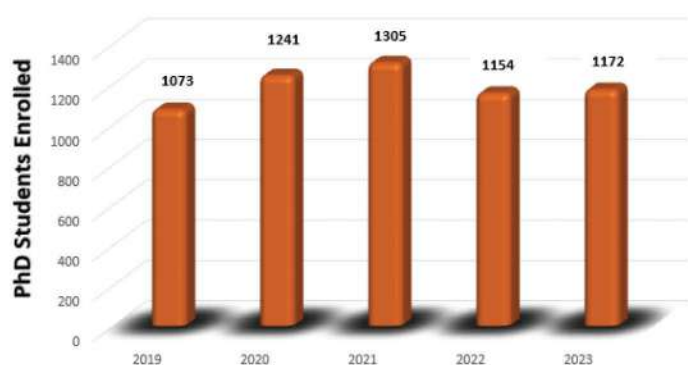


624 PhD awarded in 2023

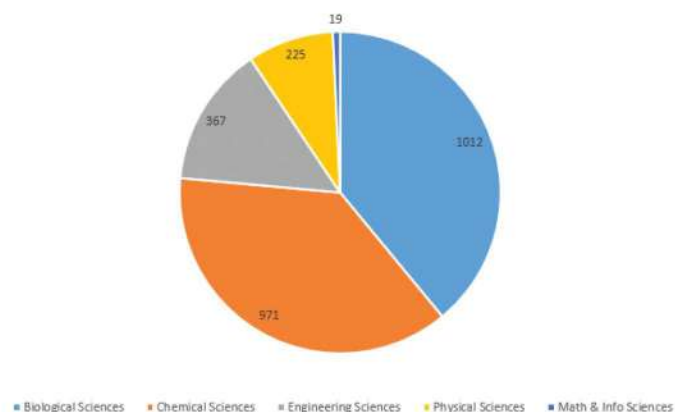


~5000 alumni

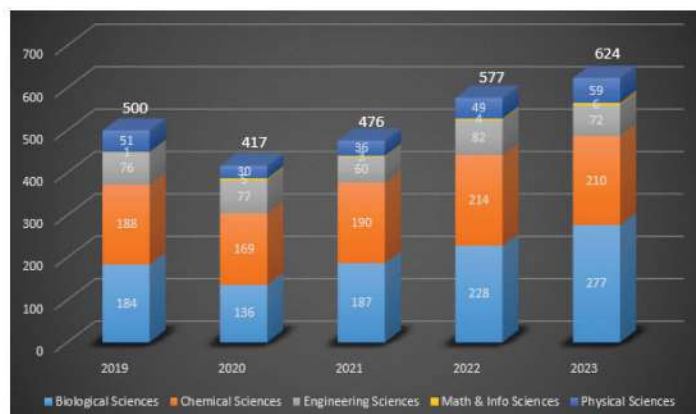
ACADEMIC OUTPUTS IN LAST 5 YEARS



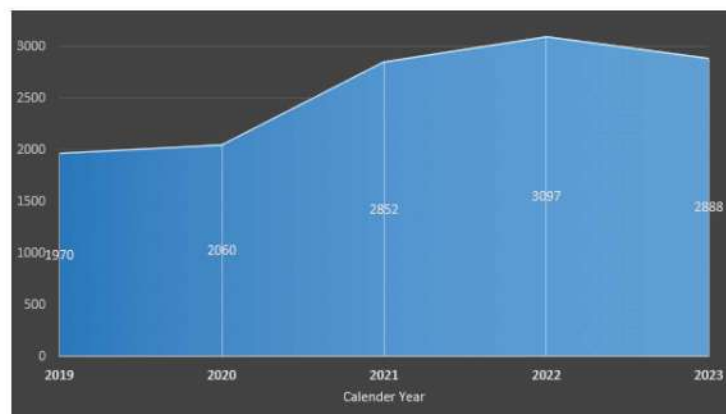
Enrollments of PhD students



PhD awarded (Faculty wise)

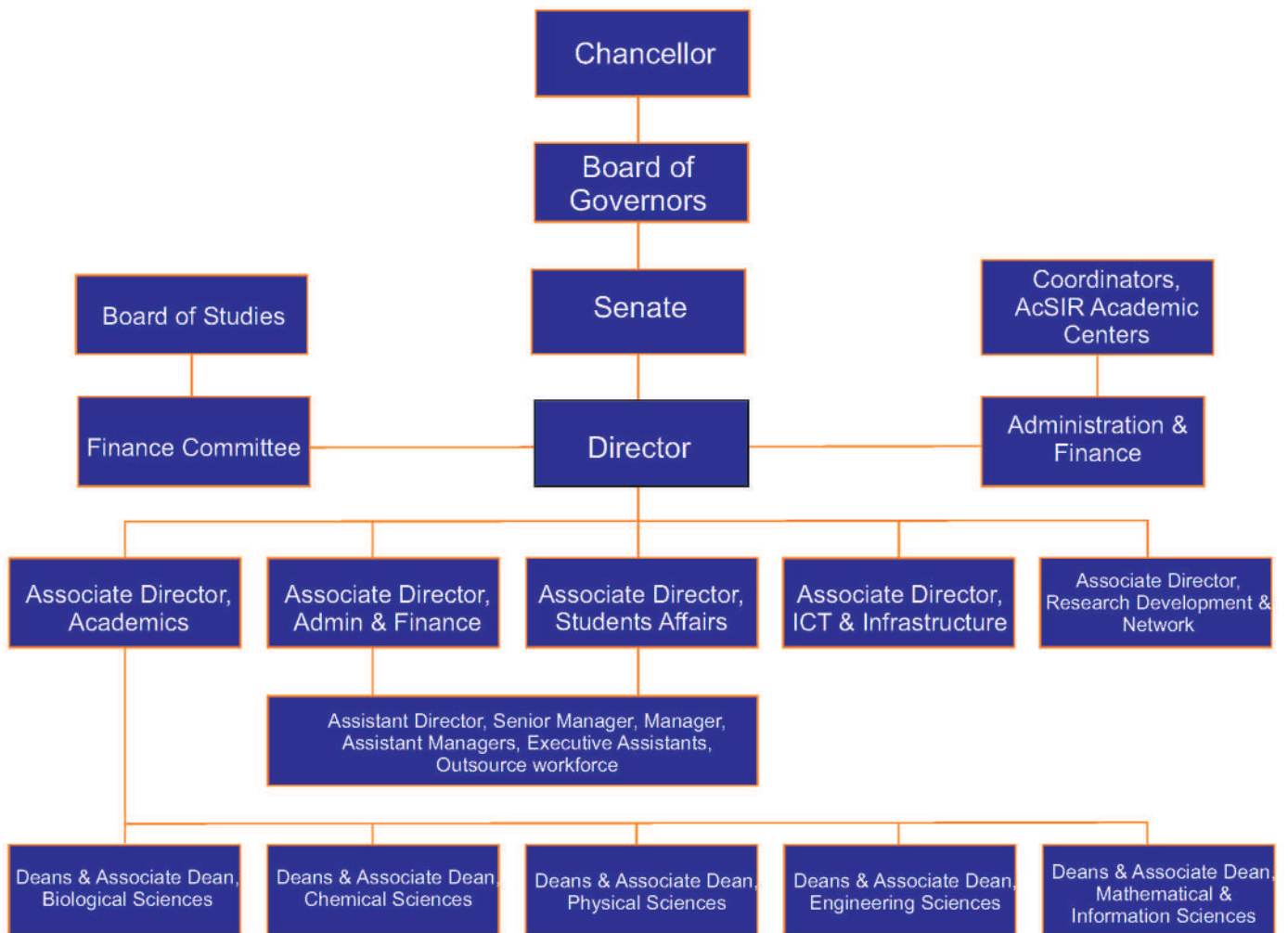


PhD Degree awarded



Publications (Year wise)

GOVERNANCE STRUCTURE



Academy Professors (AcSIR Life time Professorship)



Prof. C.N.R. Rao

Hon. President, JNCASR, Bangalore, India



Prof. M.M. Sharma,

Former Director, Institute of Chemical Technology (ICT), Mumbai, India



Late. Prof. R Narasimha

Former Director, CSIR-NAL



Prof. G.M. Whitesides

Harvard University, Cambridge, USA



Prof. R.A. Mashelkar

National Research Professor and Former Chairman & Board of Governors, AcSIR



Prof. Samir K Brahmachari

Former Director General, CSIR & Former Vice Chairman, AcSIR



Prof. Vijay Kumar Saraswat

Member NITI Aayog & Former Director DRDO, India



Prof. Anil K. Gupta

Founder Honey Bee Network,



Shri N R Narayana Murthy

Co-Founder, Infosys



Prof. K. K. Aggarwal

Chairman NBA & Former Founder Vice-Chancellor, GGSIPU India



Prof. Suresh Bhargava

Deputy Pro Vice-Chancellor, RMIT Australia



Prof. Girish Sahni

Former Director General, CSIR, & Former Secretary DSIR



Dr. Krishna Ella

Chairman & Managing Director of Bharat Biotech International Limited



Prof. K. Vijay Raghavan

National Biological Research Centre, Tata Institute of Fundamental Research.



Dr. Surendra Pal

Prof. Satish Dhawan Professor & Senior Advisor, ISRO Satellite Centre



Dr. Swati Ajay Piramal

Director, Piramal Foundation



Dr. A. V. Rama Rao

Avra Laboratories Pvt Limited



Prof. Shekar C. Mande

Former Director General, CSIR & Secretary DSIR

Distinguished Emeritus Professors



Dr. Vidyadhar Mudkavi

Former Head, CSIR-FPI



Prof. Rakesh K. Mishra

Former Director, CSIR-CCMB

Professor of Eminence



Prof. Kalaiselvi. N

Director General, CSIR & Secretary DSIR and Chairperson, Board of Governors, AcSIR

Outstanding Professors



Prof. Manoj Kumar Dhar

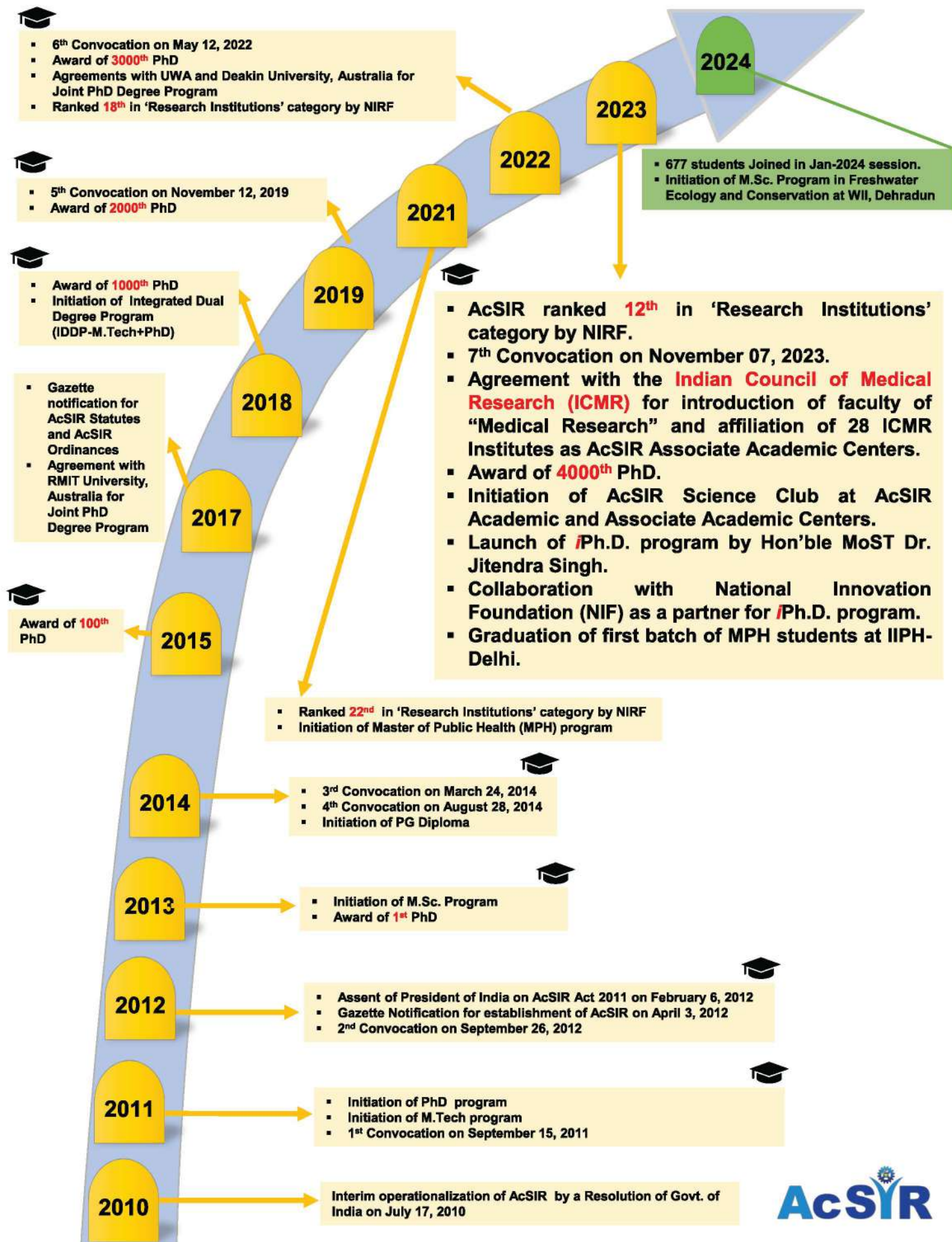
Director, AcSIR



Prof. Ajay Dhar

Associate Director, AcSIR

Ascend of AcSIR



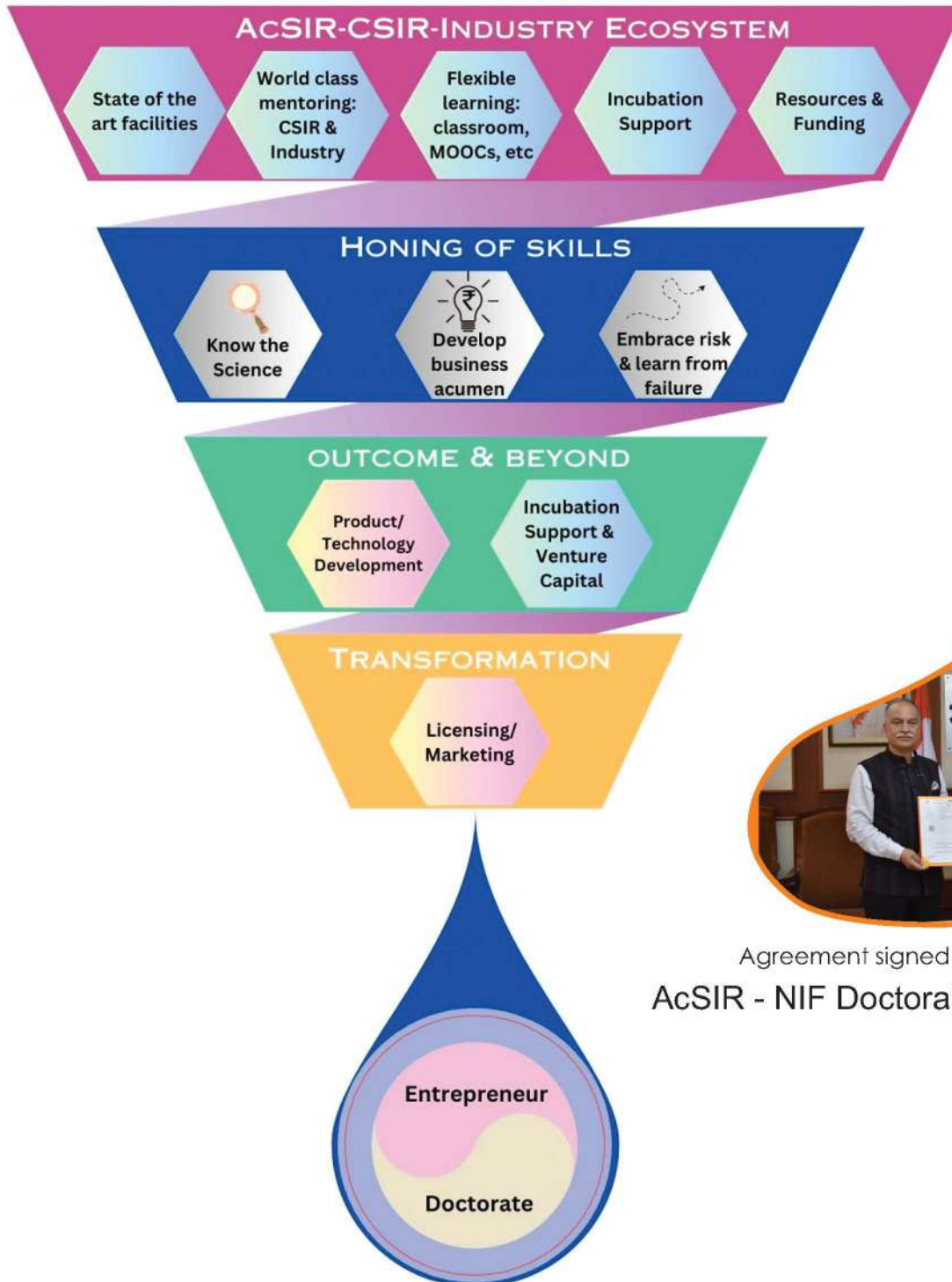
First of its kind in INDIA

iPhD

imaginative, innovative, industry linked program



Student to Sciencepreneur



Agreement signed between AcSIR & NIRF
AcSIR - NIF Doctoral Innovation Fellowship

Features

Curriculum based on innovation and Entrepreneurship
Backed by Industrial support
Guided by competent mentors
Worldclass research infrastructure

Partner



National Innovation Foundation

Structure of the iPhD program

Program focus

Research to develop new product/ technology for the progress of the Nation and also for societal good

Eligibility

Master degree holder with entrepreneurial mindset

Mentorship

selected candidates shall jointly be supervised for Ph.D. by the faculty of AcSIR and scientists/technologists of NIF

Coursework

- Minimum credit requirement of 18 credits
- Built-in flexibility for completing the specially designed courses, related to innovation & entrepreneurship, within 3 years of enrolment apart from few compulsory courses on Research Methodology, Research & Publication Ethics, etc.

Monitoring:

- Monitoring Committee (having industry experts as members) shall review the progress of the student every 6 months.
- Monitoring Committee shall be constituted by the Director, AcSIR and shall also serve as Doctoral Advisory Committee (DAC). Comprehensive Examination: Evaluation of progress in technology at the end of 3rd year

Comprehensive Examination

Evaluation of progress in technology at the end of 3rd year

Residency

Student shall have flexibility to work in different Labs (Industrial or scientific) and/or remain in field

Program Duration

The Ph.D. degree program shall be for a minimum duration of three (3) years, including course work and a maximum of six (6) years from the date of admission to the Ph.D. program

Thesis submission pre-requisites

Filing of two Patents shall be mandatory before submission of Ph.D. thesis.

Award of Ph.D. degree

Thesis on TRL 4 level technology and its evaluation by Technologists/ industry Experts for the award of the PhD degree.

Post Ph.D. Support

Support with respect to incubation of business idea, etc.

iPh.D

Student to Sciencepreneur

Memorandum of Agreement between AcSIR and ICMR

Indian Council of Medical Research (ICMR) is the apex body in India for formulation, coordination and promotion of biomedical research. ICMR is mandated to conduct, coordinate and implement medical research for the benefit of the Society; Translating medical innovations in to products/processes and introducing them in to the public health system.



A new chapter in the history of AcSIR was added on December 13, 2023, with signing of Memorandum of Agreement with the **Indian Council of Medical Research (ICMR)** and a new faculty of "**Medical Research**" was created at AcSIR.

This is a significant development towards making AcSIR a multi-disciplinary Research Institution for promotion of cutting-edge research in cross-disciplinary areas. This would provide much needed impetus to the medical research in the country.

Introducing

Faculty of Medical Research



The agreement was signed by Prof. N. Kalaiselvi, Chancellor, AcSIR, DG, CSIR & Secretary, DSIR and Prof. Rajiv Bahl, DG, ICMR & Secretary, DHR in presence of Prof. Manoj K. Dhar, Director, AcSIR, among others, at a function held at ICMR-NIMR

S. No.	Name of ICMR Institute	Research Areas
1	The Indian Council of Medical Research (ICMR) Hqrs. New Delhi	Formulation, coordination and promotion of biomedical research Translating medical innovations in to products/processes and introducing them in to the public health system
2	ICMR-National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra	Leprosy Tuberculosis Mycobacteriosis HIV Filariasis
3	ICMR-National Institute of Occupational Health, Ahmedabad	Environmental stressess/ factors at Workplace Occupational Health
4	ICMR-National Centre for Disease Informatics and Research, Bengaluru	Cancer Diabetes CVD Stroke
5	ICMR-Bhopal Memorial Hospital & Research Centre, Bhopal	Clinical Research Epidemiological Research
6	ICMR-National Institute for Research in Environmental Health, Bhopal	Environmental Health Epidemiological Research
7	ICMR-National Institute of Epidemiology, Chennai	Epidemiological Research Leprosy
8	ICMR-National Institute for Research in Tuberculosis, Chennai	Tuberculosis
9	ICMR-National Institute for Research in Tribal Health, Jabalpur	Tribal Health
10	ICMR-National Institute of Nutrition, Hyderabad	Eliminiation of Malnutrition
11	ICMR-National Animal Resource Facility for Biomedical Research, Hyderabad	Developmental BiologyReproductive BiologyNeurobiologyBehavioural SciencesCardiologyStem CellMolecular Cell BiologyImmunologyVirology

S. No.	Name of ICMR Institute	Research Areas
12	ICMR-National Institute of Cholera and Enteric Diseases, Kolkata	Diarrhoeal Diseases Typhoid Fever
13	ICMR -National Institute of Immunohaematology , Mumbai	Hematology Tranfusion Medicine Immunology
14	ICMR-National Institute of Malaria Research, New Delhi	Malaria Eradication: Basic, applied and operational field research
15	ICMR-National Institute of Pathology, New Delhi	Molecular Pathology Genetics Immunodiagnostics Vaccine development Environmental Bio-monitoring
16	ICMR-National Institute of Medical Statistics, New Delhi	Medical Statistics Bio-medical and bio-behavioral research
17	ICMR-National Institute of Cancer Prevention and Research, Noida	Cancer: Uterine Cervix, Breast and Oral cavity
18	ICMR-Rajendra Memorial Research Institute of Medical Sciences, Patna	Visceral Leishmaniasis (Kala-azar) HIV/AIDS Tuberculosis
19	ICMR-Vector Control Research Centre, Puducherry	Vector borne diseases: LF, Dengue, JE, Malaria, KFD, Scrub typhus
20	ICMR-National Institute of Virology, Pune	Cell Repository Electron Microscopy Rickettsioses Hepatitis Influenza and related viruses Clinical Virology Biochemistry Virus Registry Biostatistics
21	ICMR-National AIDS Research Institute, Pune	HIV/AIDS
22	ICMR-National Institute of Traditional Medicine, Belagavi	Traditional Medicine: lifestyle and metabolic diseases, geriatric and mental disorders, viral infections
23	ICMR-Regional Medical Research Centre, Bhubaneswar	Lymphatics filariais Malaria Diarrhoeal disorders Tuberculosis HIV/AIDS Haemoglobinopathies Hypertension Diabetes Tribal Health

S. No.	Name of ICMR Institute	Research Areas
24	ICMR-Regional Medical Research Centre, NE Region, Dibrugarh	<p>Mosquito borne diseases</p> <p>HIV and drug abuse</p> <p>Trematode infection</p> <p>Haemoglobinopathies</p> <p>Cancer nasopharynx, oesophagus, stomach</p> <p>Cardiovascular diseases</p> <p>Medicinal plants of NE India</p> <p>Nutrition</p>
25	ICMR-Regional Medical Research Centre, Gorakhpur	<p>Acute Encephalitis Syndrome (AES)</p> <p>HIV</p> <p>Multi drug resistant (MDR)</p> <p>Tuberculosis</p> <p>Vector borne diseases like JE, Dengue, and filariasis</p> <p>Juvenile diabetes and myocarditis</p> <p>Child and maternal health</p>
26	ICMR-National Institute for Implementation Research on Non-Communicable Diseases, Jodhpur	<p>Cardiovascular diseases</p> <p>Chronic respiratory diseases</p> <p>Environmental health</p> <p>Nutritional disorders</p> <p>Cancers</p> <p>Injury & trauma</p> <p>Mental illnesses including substance abuse</p> <p>Genetic diseases</p>
27	ICMR-Regional Medical Research Centre, Port Blair	Communicable and Non-communicable diseases
28	ICMR-National Institute for Research in Reproductive & Child Health, Mumbai	Reproductive Health

Ph.D.

Doctor of Philosophy

PhD

Biological Sciences

Chemical Sciences

Physical Sciences

Mathematical & Information Sciences

Engineering Sciences

Medical Research

Eligibility for PhD

1. PhD Sciences (Biological Sciences, Chemical Sciences, Physical Sciences and Mathematical & Information Sciences):

Regular

Masters degree in Science with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third gender and Persons with Disability (PwD).

A valid tenable National-level Fellowship (JRF/ SRF of any funding agency, e.g. CSIR, UGC, DBT, DST, etc.) or any other equivalent fellowship like DBT-BET, INSPIRE, RGNF, etc. or apply for institutional fellowships (of BSIP, IASST, WII, TIGS, TCG-CREST).

OR

Project Assistants, Senior Research Fellows, Group-IV Scientists and Group-III Technical Staff of CSIR and other Associate Academic Centers of AcSIR having Masters degree in relevant science discipline are eligible to apply. NOC from the current employer is mandatory.

Sponsored

Masters degree in Science with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third Gender and Persons with Disability (PwD). Endorsement (NOC) from the current employer is mandatory.

2. PhD (Engineering):

Regular

Masters degree in Engineering or Technology (after a four year engineering/technology degree or with an integrated 5 year B.Tech./M.Tech. degree or equivalent) with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third gender and Persons with Disability (PwD).

OR

Project Assistants, Senior Research Fellows, Group-IV Scientists and Group-III Technical Staff of CSIR and other Associate Academic Centers of AcSIR are eligible to apply. NOC from the current employer is mandatory

Sponsored

Masters degree in Engineering or Technology (after a four year engineering/technology degree or with an integrated 5 year B.Tech./M.Tech. degree or equivalent) with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third Gender and Persons with Disability (PwD). Endorsement (NOC) from the current employer is mandatory.

**AcSIR
Academic Centres**

Faculty of Studies

Areas of Research

CSIR - Advanced Materials and Process Research Institute, Bhopal



CSIR-AMPRI, BHOPAL

Biological Sciences

Biomedical
Environmental Industries
Automotive and Transportation
Energy Industries
Aerospace and Defense

CSIR - Central Building Research Institute, Roorkee



CSIR-CBRI, ROORKEE

Biological Sciences

Biological Sciences Developmental Biology
Structural Biology
Genomics and Epigenetic Regulation
Cell and Stem Cell Biology
Microbes and Biology of Infection
Wildlife Conservation and Ecology
Crop Improvement
Innovation and Technology Development

CSIR - Centre for Cellular & Molecular Biology, Hyderabad



CSIR-CCMB, HYDERABAD

Biological Sciences

Developmental Biology
Structural Biology
Genomics and Epigenetic Regulation
Cell and Stem Cell Biology
Microbes and Biology of Infection
Wildlife Conservation and Ecology
Crop Improvement
Innovation and Technology Development

CSIR - Central Drug Research Institute, Lucknow



CSIR-CDRI, LUCKNOW

Biological Sciences

Malaria and other Parasitic Diseases
Antimicrobial Resistance
Virus Research & Therapeutics Cancer Biology
Neuroscience & Ageing Biology
Cardiovascular system Disorders
Bone Health & Metabolic Bone Diseases
Reproductive Health Research
Pre-clinical studies & Translational Research

Chemical Sciences

Organic & Medicinal Chemistry
Natural Product Chemistry Chemical
Biology Spectroscopy & Its applications
Crystal Engineering

CSIR - Central Electrochemical Research Institute, Karaikudi



CSIR-CECRI, KARAIKUDI

Engineering Sciences

- Corrosion and Materials Protection
- Electrochemical Power Sources
- Electroplating & Metal Finishing
- Electrodes & Electrocatalysis
- Materials Electrochemistry
- Electrochemical Process Engineering

CSIR - Central Electronics Engineering Research Institute, Pilani



CSIR-CEERI, PILANI

Physical Sciences

- Semiconductors and optoelectronics
- Semiconductor Sensors and Microsystems
- Advanced Information Technologies
- Integrated Circuits and Systems
- Microwave
- High frequency components
- Devices and systems
- High-Power Microwave Systems

Engineering Sciences

- Semiconductor-based sensors and microsystems
- Semiconductor Processes Technologies
- Advanced Information Technologies
- Integrated Circuits and Systems
- Vacuum Electron Devices
- High-Frequency Devices and System
- High-Power Microwave Systems

CSIR - Central Food Technological Research Institute, Mysuru



CSIR-CFTRI, MYSURU

Biological Sciences

- Biotechnology
- Microbiology
- Biochemistry
- Molecular Nutrition
- Food Science and Technology

Chemical Sciences

- Packaging Technology
- Flavour Chemistry
- Natural Product Chemistry
- Synthetic Organic
- Bioactives from Food Sources
- Specie Chemistry

Engineering Sciences

- Food Engineering
- Environmental Engineering
- Design and Fabrication
- Food Science and Nutrition
- Fruit and Vegetable Technology

CSIR - Central Glass & Ceramic Research Institute, Kolkata



CSIR-CGCRI, KOLKATA

Engineering Sciences

- Orthopaedic, dental and maxillofacial implants/materials
- Electrochemical Power Sources
- Tissue engineering & drug delivery
- Reconstructive and Trauma materials
- Coatings
- Ceramic materials
- polycrystalline diamond materials for electron tubes

CSIR - Central Institute of Medicinal & Aromatic Plants, Lucknow



CSIR-CIMAP, LUCKNOW

Biological Sciences

- Phytochemistry
- Bio-Prospection & Product Development
- Plant Biotechnology
- Crop Protection and Production
- Plant Breeding & Genetic Resource Conservation
- Technology Dissemination and Computational Biology

CSIR - Central Institute of Mining and Fuel Research, Dhanbad



CSIR-CIMFR, DHANBAD

Chemical Sciences

- Clean Coal technology
- Carbon Capture, Utilization and Storage (CCUS)
- Earth and Environmental Sciences

Engineering Sciences

- Mining Engineering
- Mine Mechanization and Automation
- Rock Excavation Engineering
- AI & ML in Mining
- Environmental Engineering & Management
- Mining Machinery

CSIR - Central Leather Research Institute, Chennai



CSIR-CLRI, CHENNAI

Chemical Sciences

- Novel polymeric materials for leather.
- Plastic electronics.
- Conjugated polymers .
- Synthesis of liquid crystalline molecules
- Single-walled carbon nanotubes
- Ionic liquid crystalline polyurethane blends, composites and foam composites.
- Supramolecular polymers
- polyurethane-drug conjugates in drug delivery.
- Thermoresponsive polymers
- Nanoclays for filling cum retanning in leather

CSIR - Fourth Paradigm Institute, Bangaluru



CSIR-4PI, BENGALURU

Mathematical & Information Sciences

- Data Science and Supercomputing
- Earth & Engineering Sciences

CSIR - Central Mechanical Engineering Research Institute, Durgapur



CSIR-CMERI, DURGAPUR

Engineering Sciences

- Humanoids
- Underwater Telemanipulators
- Soft Robots, Soft Actuators and SoftSensors
- Rehabilitation robotics
- Mechatronics and Control,
- IoT Embedded System and Data Analytics
- Space applications
- Civil & Structural Engineering
- Mechatronics
- Advanced electric drive-train applications

Chemical Sciences

- Polymer composites
- Energy storage areas
- Ionic Polymer Metal Composite

Mathematical & Information Sciences

- Robotic systems
- Health Care applications
- IoT Embedded System and Data Analytics
- Artificial Intelligence (AI)

CSIR - Central Road Research Institute, New Delhi



CSIR-CRRI, NEW DELHI

Engineering Sciences

- Bridge Engineering and Structures
- Geotechnical Engineering
- Pavements & Evaluation
- Traffic Engineering and safety
- Transport Planning and Environment

CSIR - Central Scientific Instruments Organisation, Chandigarh



CSIR-CSIO

CSIR-CSIO, CHANDHIGARH

Physical Sciences

- Materials
- Photonics
- Nanotechnology
- Physics
- Sensors
- Holography
- Biomolecular Electronics

Engineering Sciences

- Mechanical Engineering
- Electronics Engineering
- Computer Engineering
- Optical Engineering
- Instrumentation
- Biomedical
- Image processing
- Nanotechnology
- Biotechnology
- Energy Management
- Sensors

Biological Sciences



CSMCRI
CSIR-CSMCRI, BHAVNAGAR

Chemical Sciences

- Seaweed biotechnology
- Seaweed metabolomics and nutraceuticals
- marine biology
- Algal biostimulant & biofertilizer
- Plant Abiotic stress
- Plant proteomics & metabolomics
- Plant Biotechnology & Plant Molecular Biology
- Soil/ marine microbiology
- Plant Tissue Culture
- Seaweed cultivation
- Plant gene cloning & genetic engineering
- Plant transgene technology
- Plant genome editing
- Marine environmental monitoring
- Microalgae: value addition and processing
- Plant Physiology
- Breeding & Genetics
- Phytoremediation
- Waste land reclamation & management
- Saline agriculture

- Inorganic Metal Complexes synthesis
- Electrochemical Energy Conversion
- Organic transformations
- Heterocycle Synthesis & Functionalizations,
- C-H Functionalization
- Asymmetric synthesis
- Ion Exchange Membranes
- Thin Film composite
- Nano filtration & Hollow fibre Membrane
- Reverse and forward Osmosis membrane
- science & technology conducting polyme
- Water Treatment
- Separation Technology
- Ionic liquids
- Solution thermodynamics
- Computational Chemistry Salts and
- Marine Chemicals
- Electrochemical & Optical sensors
- Electro & Photo catalysis
- Heterogeneous & Homogeneous catalysis
- Seaweed Polysaccharides
- Natural product chemistry Analytical
- Chemistry- Method Developments
- Seaweed Functionalization
- Coordination chemistry
- Chemical process development
- and engineering (speciality
- and other salt & marine chemicals)
- Porous metal-organic and
- covalent-organic frameworks
- Metallopolymeric matrix/gel
- Zeolite & Silica based Materials
- CO₂ capture & utilization
- Chemical biology



CSMCRI

CSIR-CSMCRI, BHAVNAGAR

Engineering Sciences

Valorization of biomass
Fermentation Technology
Marine Environmental monitoring
Reverse and forward Osmosis membrane
-science & technology
Chemical process development
-and Engineering
Heat & Mass transfer
Fluid mechanics
Renewable energy
Analytical and Process control
-instrumentation
Civil Engineering and
Engineering aspects of Solar Salt Works
Embedded systems
Cooling Crystallization

CSIR - Institute of Genomics and Integrative Biology, New Delhi



CSIR-IGIB, NEW DELHI

Biological Sciences

Genomics and Molecular Medicine
Cardiorespiratory Disease Biology
Chemical and Systems Biology
Informatics and Big Data
Integrative and Functional Biology
Immunology and Infectious Disease Biology

CSIR - Institute of Himalayan Bioresource Technology, Palampur



CSIR-IHBT, NEW DELHI

Biological Sciences

Agriculture Sciences
Biochemistry
Biotechnology
Microbial Biotechnology
Fermentation Technology
Bioinformatics
Computer Science
Scientific Computing
Data Science
Artificial Intelligence
Botany
Entomology
Forestry & Environmental Sciences
Food Science
Food Technology
Genetics and Plant Breeding
Plant Molecular Biology
Floriculture
Microbiology

Industrial Microbiology
Medical Microbiology
Molecular Microbiology
Molecular Biology
Nanotechnology
Nano biosciences
Plant Science
Plant Pathology
Plant Physiology
Pharmaceutical sciences
(Pharmacology &
Pharmacology & Toxicology)
Zoology
Human Genetics
Virology
Traditional Medicine
Natural Resource Management
Statistics
Remote Sensing & GIS

Chemical Sciences

Organic Chemistry
Analytical Chemistry
Inorganic Chemistry
Physical Chemistry
Chemistry
Pharmaceutical Chemistry

CSIR - Indian Institute of Chemical Biology, Kolkata



CSIR-IICB, KOLKATA

Biological Sciences

- Cancer Biology & Inflammatory Disorder
- Cell Biology & Physiology
- Infectious Diseases & Immunology
- Molecular Genetics
- Organic & Medicinal Chemistry
- Structural Biology & Bioinformatics

CSIR - Indian Institute of Chemical Technology, Hyderabad



CSIR-IICT, HYDERABAD

Chemical Sciences

- Organic Chemistry
- Medicinal Chemistry
- Natural Products
- Process Chemistry
- Fluoro Organics
- Agrochemicals
- Catalysis & Fine Chemicals
- Analytical and Structural Chemistry
- Polymers & Functional Materials
- Lipids
- Nano Materials
- Energy Sciences

Biological Sciences

- Biotechnology
- Microbiology
- Zoology
- Pharmaceutics
- Pharmacology
- Environmental Science
- Biomaterials
- Biochemistry

Engineering Sciences

- Chemical Engineering
- Process Engineering
- Lipid Science & Technology
- Polymer Technology
- Oils & Fats Processing
- Separation Science & Technology
- Chemical Kinetics
- Design Engineering
- Energy & Allied Materials

CSIR - Indian Institute of Integrative Medicine, Jammu



CSIR-IIIM, JAMMU

Biological Sciences

- Natural Products & Medicinal Chemistry
- Fermentation and Microbial Biotechnology
- Infectious Diseases
- Plant Sciences and Agrotechnology (PSA)
- Pharmacology
- Quality Management & Instrumentation

Chemical Sciences

Catalysis
Catalytic Processes
Reforming
Syngas Chemistry
Biogas
Advanced Functional Materials
Adsorption and Absorption
Carbon Nanomaterials
Fuels and Energy
Biofuels
Lignin Valorization through chemical
bio-chemical/thermal conversions
Life cycle analysis
Petrochemicals
Green Chemistry
Specialty Chemicals
Lubricants and Additives
Solvent Extraction

CO₂ capture and utilization (ccus)
Chemicals and Energy
Waste-to-Wealth
(Waste Plastics, ewaste)
Hydrogen energy
Petro-refining Processes
Hydroprocessing
Heavy Oil Processing
Reaction Engineering
Fluid Catalytic Cracking
Analytical Methods Development

Biological Sciences

Biomass to Chemicals
Environmental Science
Microbial Biotechnology
Industrial ecology
Waste water processing
Microbial Fermentation
Oleaginous Fermentation
Material Resource Efficiency
Circular economy
Carbon flux assessment
Microbial-omics
Nutraceuticals and API
Bio-remediation
Enzymology
Bio-manufacturing
Biofuel
Bioethanol (1G, 2G, 1.5G)



Creating
Future
Fuels

CSIR-IIP, DEHRADUN

Physical Sciences

Photovoltaic (PV)
Batteries
Solid state hydrogen
-storage material

Engineering Sciences

Mass Transfer
Process Intensification
Material characteristics
Lubricant materials
Tribology
High entropy alloy



CSIR-IITR, LUCKNOW

Biological Sciences

Toxicoinformatics & Industrial Research
Environmental Toxicology
Food, Drug & Chemical Toxicology
Systems Toxicology & Health Risk Assessment
Regulatory Toxicology

Physical Sciences

Physics
Electronics
Geology
Materials sciences
Nano-sciences

Biological Sciences

Biology
(Plant sciences/Botany,
Animal sciences/Zoology)
Environmental Sciences
Microbiology,
Biotechnology

Chemical Sciences

Chemistry
(Physical/Organic /Inorganic
/analytical)
Materials
Environmental
Nano-sciences



CSIR-IMMT, BHUBANESWAR

Mathematical & Information Sciences

Information

Engineering Sciences

Metallurgical Engineering
Chemical Engineering
Mineral Engineering
Mechanical Engineering
Electronics Engineering
Electrical Engineering
Computer Science Engineering
Information Technology Engineering



CSIR-IMTECH, CHANDIGARH

Biological Sciences

- Antimicrobial Research
- Virology
- Microbiome
- Biotherapeutics and Metabolics
- Microbial Type Culture Collection
- Biochemical Engineering
- Diagnostics
- Bioinformatics and Big Data Analytics
- Screening Platforms
- Genomics and Structural Biology
- Instrumentation & Core Facilities
- Medicinal Chemistry
- IT Facilities
- iCARE



CSIR-NAL, BENGALURU

Engineering Sciences

- Corrosion & Tribology
- Energy
- Function Materials
- Nanoscale Architecture
- Sensors
- Structural Ceramics
- Aircraft Radome Technology
- Autopilot Systems



CSIR-NBRI, LUCKNOW

Biological Sciences

- Plant Molecular Biology
- Biodiversity
- Toxonomy
- Environmental Science
- Plant Microbe Interaction
- Phytochemistry
- Soil Science



CSIR-NCL PUNE

Chemical Sciences

- New catalytic materials
- Speciality chemicals
- Soft Condensed Matter Physics
- Polymers
- Polyolefin Science and Technology
- Polymer Membrane Technology / Fuel cell
- Conductive Polymers and Energy Materials
- Sustained and Controlled Release Technology
- Personal Protective Equipment (PPE) recycling
- Nano-materials & nanoparticles
- Medicinal chemistry
- Process chemistry
- Custom synthesis
- Isolation of natural products
- Total synthesis of natural products
- Carbohydrate chemistry

- Oligonucleotides
- Peptidomimetics
- Synthetic foldamers
- Biocatalysis
- Photochemistry
- Organo catalysis
- Homogenous catalysis
- Asymmetric synthesis
- Organic functional materials
- Organic dyes
- Entomology
- Bioorganic Chemistry
- Chemical Biology
- Computational Chemistry
- Quantum Computing

Biological Sciences

Proteomics
Computational biology
Fermentation
Enzymology and microbiology
Plant biochemistry and molecular biology
Structural biology
National collection of industrial microorganisms
Biosimilars
Cellulosics
Microbiology and Microbial Diversity
Microbial Technology
Microbe derived Bioactive Molecules
Antimicrobial Resistance
Human and Animal Pathogen Surveillance (Environmental and Clinical)
Drug resistance in Infectious Disease (Malaria)
Pathogen Biology
(Malaria, Toxoplasmosis, Salmonellosis)
Disease Epidemiology
Computational and Systems Biology
Genomics and Genome Editing
Plant Biochemistry and Plant Biotechnology
Plant-Pathogen Interaction studies
Bioprospecting of Biodiversity
Human Metabolic and Genetic Disorders (Diabetes and Cancer)
Structure Biology (X-ray diffraction, NMR and Cryo-electron Microscopy)
Protein Expression and Functional Characterization
Biomarker studies
Drug Discovery studies
Biotherapeutics Fermentation
Mammalian Cell Culture systems
Plant Natural Products
(biosynthesis pathway studies, isolation, characterization and applications)
Bio-Membrane Dynamics
Clinical studies using Omics approach (Proteomics, metabolomics & Genomics)
Probiotics and Prebiotics
Bio-Nanomaterial and Nanobiotechnology
Drug Delivery systems (Nano and Polymeric)
Diagnostics (Aptamers, CRISPR, Oxford Nanopore Sequencing, Mass Spectrometry)
Biocatalysis
Biomaterials (Cellulosics)

Physical Sciences

Theoretical computational chemistry
Materials science
Thermodynamics of chemical reactions and -processes
Nanoscale science
Molecular modelling and simulations
Reaction Kinetics and reaction mechanism
Computational Physics
Quantum Computing
Computational Materials Science

Mathematical & Information Sciences

Machine learning
Artificial Intelligence
Natural Language Processing
Quantum Computing
Mathematical modelling
Systems and network modelling
Theoretical Biology
AI/DL models for materials design
Quantum computing

Engineering Sciences

Bio-chemical and biological engineering
Bio-chemical and biological engineering
Process separations
Process modelling & engineering
Modular-agile-intensified continuous (MAGIC) Processes
Continuous flow synthesis
Biochemical and biological engineering
Process Development and Scale-up

Catalysis
Reactors and Separations
Biochemical and Biological Engineering
Chemical Engineering
Polymer science
Plastic & polymer engineering
Nanotechnology
Bioinformatics
biotechnology
computational biology
Computer science
Material science & technology
Metallurgical and material science & technology
Process modelling and simulation
advanced distillation configurations, -flow chemistry
Bioengineering
Artificial intelligence
Oncology



CSIR-NCL PUNE



CSIR-NEERI, NAGPUR

Engineering Sciences

Physical Sciences

- Air Pollution Control
- Environmental Impact And Sustainability
- Cleaner Technology and Modelling
- Waste Water Technology
- Water Technology and Management
- Environmental Biotechnology And Genomics
- Climate Change and Green Material
- Environmental Virology Cell
- Health and Toxicity Cell
- Environmental Audit and Policy Implementation
- Chemical and Hazardous Waste Management
- Sophisticated Environmental Analytical Facility
- Waste Reprocessing
- Energy and Resource Management

Biological Sciences

- Zoology
- Biotechnology
- Molecular Biology
- Botany
- Pharmacology
- Biomedical
- Bioinformatics
- Infectious diseases

Chemical Sciences

- Advanced Material
- Coal Chemistry
- Chemical Engineering
- Synthetic Organic Chemistry
- Natural Product Chemistry
- Analytical Chemistry
- Polymer & Petroleum
- Separation Science

Physical Sciences

- Computational Seismology & Geophysics
- Geology
- Geochemistry



CSIR-NEIST, JORHAT

Mathematical & Information Sciences

- Artificial intelligence
- Machine Learning
- Big Data

Engineering Sciences

- Heat & Mass Transfer
- Biomass and Solar Energy
- Advanced Manufacturing
- Mechanical Simulation & Modelling
- Thermo Electric Devices



CSIR-NGRI, HYDERABAD

Physical Sciences

- Airborne Geophysics
- Computational Electromagnetics
- Controlled Source Seismics and Gas Hydrates
- Earth Process Modelling
- Earthquake Hazard
- Electrical and Heliborne Geophysics
- Environmental Seismology
- Geochemistry
- Geochronology
- Geology
- Geomagnetism
- Gravity and Magnetism
- Instrumentation and Engineering Geophysics
- Magnetotellurics
- Paleo-Seismology
- Planetary Sciences
- Seismological Imaging
- Shallow Seismics
- Tectonic Geodesy



CSIR-NIIST, THIRUVANANTHAPURAM

Chemical Sciences
Physical Sciences
Engineering Sciences

Agroprocessing
Sustainable Energy
Environment Technology
Materials Science
Microbial Process
Artificial Intelligence & Machine Learning

CSIR - National Institute of Oceanography, Goa

Physical Sciences

Marine Geology
Geophysics
Physical Oceanography



CSIR-NIO, GOA

Biological Sciences

Marine Biology
Marine Biotechnology
Marine Ecology

Mathematical & Information Sciences

Applied Mathematics
Atmospheric Ocean Science
& Mathematics

Chemical Sciences

Biogeochemistry
Marine pollution
Marine Natural Products

Engineering Sciences

Ocean Engineering
Marine Instrumentation

CSIR - National Institute Of Science Communication and Policy Research, New Delhi



CSIR-NIScPR

Mathematical & Information Sciences

Innovation, Entrepreneurship, and
-Diffusion Research
Energy, Environment & Sustainability
Studies in Science Communication
Agriculture & Sustainable Rural Development
Inclusive Health & Traditional Knowledge
Global Governance & Science Diplomacy
International Popular Science

CSIR - National Metallurgical Laboratory, Jamshedpur



CSIR-NML, JAMSHEDPUR

Engineering Sciences

Mineral Processing
Process Metallurgy
Physical Metallurgy
Mechanical Metallurgy
Corrosion and Surface Engineering
Advanced material
Waste utilisation

Chemical Sciences

Sustainable materials for green energy
-conversion and storage
Surface chemistry and catalysis
Electrochemistry and corrosion
Waste utilization and recycling
Analytical and environmental chemistry
Functional nanomaterials and coatings
Theoretical chemistry including molecular
-dynamics and DFT simulation



CSIR-NPL, NEW DELHI

Physical Sciences

Organic and Perovskite Solar cells/
Materials Science/Physics
2D materials for optoelectronic devices
/quantum devices
Laser induced white light
Luminescent materials
Perovskite
Oxides and organic semiconductor devices
/2D materials for device applications
Quantum technologies
Optics and instrumentation for laser
-cooling of atoms
Time & Frequency Metrology
Boltzmann constant based
-quantum standards
Infrared thermometry
2D materials and Vacuum Metrology
Semiconductor for optoelectronic properties
3D Printed Electronics and
-Electrochemical Devices
Metal oxide/transition metal chalcogenides
-thin films for gas sensor applications
Stable Lasers Quantum applications
FPGA based Digital and RF signal generator
Time and Frequency Metrology
Semiconductor Thin Film Devices
Physics of nanodevices
Detection of low energy photons
Fabrication of THz absorbers and detectors
Topological Quantum Materials
Including Superconductors/Magnetics
Solar cell reliability
Band engineering in alloys and
-heterostructures of 2D materials
2D materials and phase transitions

Chemical Sciences

Development of carbon
materials for energy applications
Indoor air pollution
Bioaerosols
Atmospheric deposition
Atmospheric aerosols
Metal organic framework for
-hydrogen storage
Measurement of GHG emission
Organic and Perovskite
-Solar cells/ Materials chemistry

Engineering Sciences

Industrial Engineering
Recycling of E-waste and
-Plastic waste to wealth for energy
-and environmental applications
Development of Interferometry
based measurement system
for 100 g
-Kibble Balance
High entropy oxides
Computer Vision
Smart Grid
Microgrid
Metrological characterization
-of PMUs
Application for monitoring
Protection and control of
-the power grid

CSIR - Structural Engineering Research Centre, Chennai



CSIR-SERC, CHENNAI

Engineering Sciences

Advanced Materials for Sustainable Structures
Disaster Mitigation
Special and Multi-functional Structures
Structural Health Monitoring & Life Extension

CSIR - Unit for Research & Development of Information Products, Pune



CSIR-URDIP, PUNE

Mathematical & Information Sciences

Patinformatics
Toxinformatics
Phytoinformatics
Cheminformatics

PHFI - Indian Institute of Public Health, Delhi



PHFI-IIPH, DELHI

Biological Sciences

Nutrition
Bio-Statistics
Health Information System

DST - Wadia Institute of Himalayan Geology, Dehradun



DST-WIHG, BENGALURU

Physical Sciences

Earth and Environmental sciences
-including Geophysics

MoEFFC - Wildlife Institute of India, Dehradun



भारतीय वन्यजीव संस्थान
Wildlife Institute of India
MoEFFC-WII, DEHRADUN

Biological Sciences

Wildlife Science
Biological Sciences

DST-Institute of Advanced Study in Science and Technology, Guwahati



DST-IASST, GUWAHATI

Physical Sciences

Biological Sciences

Basic and Applied Plasma Physics
Advanced Material Sciences
Traditional and Modern Drug Discovery
-and Disease Diagnosis
Biodiversity and Ecosystem Research"

DST-The Centre for Nano and Soft Matter Sciences, Bengaluru



DST-CENS, BENGALURU

Physical Sciences

Synthesis and characterization nanomaterials
Device applications utilizing nanomaterials
Liquid crystals
Hybrid materials

DST-Indian Institute of Astrophysics, Bengaluru



DST-IIA, BENGALURU

Physical Sciences

Sun and Solar System
Stars and Galaxies
Cosmology and High-Energy Astrophysics
Instrumentation and Data Analysis

MoHF-National Institute of Biologicals, Noida



MoHF-NIB, NOIDA

Biological Sciences

Mechanisms of Quality Evaluation and
-Development of Biologicals
Development of National Reference
-Standards



Biological Sciences

NCDs
Infectious Diseases
Oncology
Molecular Diagnostics
Clinical Research

DST - Institute of Nano Science and Technology, Mohali



Biological Sciences

Chemical Biology

Chemical Sciences

Energy and Environment

DST-Birbal Sahni Institute of Palaeosciences, Lucknow



Biological Sciences

Precambrian-Cambrian evolution of early life
Radiation of life during Palaeozoic & Mesozoic
Palaeogene-Neogene Biostratigraphy,
Palaeoclimate and Palaeogeography
Late quaternary Palaeoclimate of
-Himalayan Region
Monsoonal variability during Quaternary
-from Penninsular India
Late quaternary Palaeoclimate of
-Palaeoceanic variability from marine records
Archaeobiology, Palaeogenomics/
Metagenomics in relation of human environment

Physical Sciences

Precambrian-Cambrian evolution of early life
Radiation of life during Palaeozoic & Mesozoic
Palaeogene-Neogene Biostratigraphy,
Palaeoclimate and Palaeogeography
Late quaternary Palaeoclimate of
-Himalayan Region
Monsoonal variability during Quaternary from
Penninsular India
Late quaternary Palaeoclimate of
-Palaeoceanic variability
from marine records
Holocene Monsoon variability and
forcing factors inferred from abiotic process

Centre of Biomedical Research, Lucknow



Biological Sciences

Molecular Synthesis & Drug Discovery
NMR & Metabolomics
Functional MRI

Engineering Sciences

Light-Weight Cryptography
 Provable Security of Symmetric Key Cryptography
 Design and Analysis of Authenticated Ciphers
 Beyond Birthday Bound Security of
 -Symmetric key cryptographic primitives
 Symmetric key Cryptanalysis
 Symmetric Searchable Encryption
 Secure Cloud Computing
 Blockchain Technology
 Quantum Cryptography and Computation
 Lattice-based Cryptography
 Post-Quantum Cryptography
 White-Box Cryptography
 Statistical Learning Theory
 Deep Neural Networks Representation Learning
 Deep Generative Models
 Computer Vision
 Natural Language Processing
 Large Language Models
 Climate Informatics
 AI in Law
 Privacy-preserving Learning

Mathematical & Information Sciences

Functional Analysis
 Operator Algebra
 Algebraic Topology
 Low Dimensional Topology
 Contact Topology
 Knot Theory
 Topological Combinatorics
 Structural Graph Theory
 Algebraic Graph Theory
 Combinatorial and Discrete geometry
 Discrete Morse Theory
 Enumerative and algebraic combinatorics
 Matroid Theory(Non-) associative Algebras
 Lie algebra and Lie Groups
 Deformation theory and Homotopy algebras
 Algebraic Geometry

Chemical Sciences

Batteries and Supercapacitors
 Hydrogen Energy
 Co2 Reduction and Clean Fuels

tcg crest

Inventing Harmonious Future

TCG-CREST, KOLKATA

Physical Sciences

Quantum Sensing and
 -Computing using Cold Atoms
 Photonic Integrated Circuits
 -for sensing and computing
 Quantum Computation with
 -superconducting qubits:
 Experiments

Biological Sciences

Psychiatry
 Neurology
 Molecular and Cell Biology
 Biochemistry
 Genetics
 Stem Cell Biology

ICMR - Regional Medical Research Centre, Dibrugarh



icmr
 INDIAN COUNCIL OF
 MEDICAL RESEARCH

RMRCNE
 REGIONAL MEDICAL RESEARCH
 CENTRE, DIBRUGARH

ICMR-RMRCNE, DIBRUGARH

Biological Sciences

Medical Entomology
 Malaria and other vector borne diseases
 Cancer Biology
 Molecular Biology
 Virology
 Immunology
 Communicable Diseases
 Non-Communicable Diseases

Tata Institute of Genetics & Society, Bengaluru



TIGS, BENGALURU

Biological Sciences

Infectious diseases
 -(including antimicrobial resistance,
 vector biology, and surveillance)
 Rare genetic disorders (including diagnostics
 -and therapeutics)
 crop improvement

M.Sc

Master of Science

Food Technology

@ CSIR-CFTRI, Mysuru / 2 years / August Session

Eligibility

Regular:

A Bachelor's Degree in Science / Agriculture / Engineering / Technology with a minimum of 55% marks for General/ EWS/ OBC candidates/ Defence Personnel and 50% for SC/ST/PwD students from a recognized University (candidates waiting for final year results can appear for the entrance test, however, admission will be subjected to the above criteria).

Sponsored:

Bachelor's Degree in Science / Agriculture / Engineering / Technology with a minimum of 55% marks and two years industrial experience in a Food and allied industry.



Clinical Research

@ PHFI-IIPH, Delhi / 2 years / August Session

Eligibility

Graduate qualifications in: medical and allied fields like dentistry, AYUSH (Ayurveda, Yoga, Unani, Siddha and Homeopathy), pharmacy, physiotherapy, nursing, and veterinary science, biological and life sciences (microbiology, biochemistry, biotechnology, botany, zoology), basic sciences (chemistry), occupational therapy and biostatistics.



PUBLIC
HEALTH
FOUNDATION
OF INDIA



Health Informatics

@ PHFI-IIPH, Hyderabad / 2 years / August Session

Eligibility

Bachelor's degree, in any science discipline under the 10+2+3 system.



M.Sc

Master of Science

Wildlife Science

@ Wildlife Institute of India, Dehradun / 2 years / August session

Eligibility

Bachelor's degree in Life Science, Medical Science, Engineering, Veterinary Science, Agriculture, Forestry, Pharmacy, Social Science and Computer Science or degrees recognized as equivalent thereof.

Minimum of 15 years of formal education (either 10+2+3 or 11+2+2).



Heritage Conservation and Management

@ Wildlife Institute of India, Dehradun / 2 years / August Session

Eligibility

Bachelor's Degree from a recognized University. Minimum of 15 years of formal education (either 10+2+3 or 11+2+2).



Freshwater Ecology and Conservation

@ Wildlife Institute of India, Dehradun / 2 years / August Session

Eligibility

Candidates having Bachelor's degree in Life Science (Botany, Zoology, Wildlife sciences and Forestry as one of the subjects) or allied subjects such as Veterinary Science, Agriculture, Biodiversity and Conservation Science, Sustainable Development, Biotechnology and Environmental Science from a recognized university by UGC.

Minimum of 15 years of formal education (10+2+3).



M.Tech

Eligibility

1. Bachelor's degree in Engineering or Technology following a four-year Engineering /technology or 4/5 year science degree or equivalent degree of not less than 4 years' duration.
AND
2. At least one of the following:
 - (a) Awarded a national-level fellowship tenable at CSIR institutes
 - (b) Qualifying all the conditions required for eligibility for the CSIR-SRF, or CSIR-GATE-JRF
 - (c) Qualifying the conditions for award of the INSPIRE fellowship
 - (d) Qualifying the conditions stipulated by AcSIR for industry-sponsored students
 - (e) A valid GATE score, or CGPA ≥ 8.0 from a CFTI at the BE-level examination.

Specialization



Farm Machinery and Power Engineering



Design of Machinery and Equipment



Mechatronics



Computational Biology and Bio Engineering



Chemical Engineering



Polymer Engineering



Advanced Instrumentation

IDDP

Integrated Dual Degree Program

IDDP

M.Tech + PhD

Eligibility

Regular:

4-year undergraduate degree in Engineering (such as BE/BTech/BS) with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third Gender and Persons with Disability (PwD).

OR

Project Assistants, Group-IV Scientists and Group-III Technical Staff of CSIR are also eligible to apply (as per relevant AcSIR rules).

Sponsored:

4-year undergraduate degree in Engineering (such as BE/BTech/BS) with minimum 55% marks (without rounding off) or equivalent grade for General (UR)/General-EWS and minimum 50% marks (without rounding off) or equivalent grade for OBC (NCL)/SC/ST, Third gender and Persons with Disability (PwD). Endorsement (NOC) from the current employer is mandatory.

Specialization

- Chemical Engineering
- Computational Biology and Bio Engineering
- Polymer Engineering

- Machine Design
- Mechatronics

- Advanced Electronic Engineering

- Materials Resource Technology

- Materials Science and Engineering

- Engineering of Structures

- Chemical Engineering

@ CSIR-NCL, Pune

@ CSIR-CMERI, Durapur

@ CSIR-CEERI, Pilani

@ CSIR-IMMT, Bhubaneswar

@ CSIR-CGCRI, Kolkata

@ CSIR-SERC, Chennai

@ CSIR-IICT, Hyderabad



M.P.H

Master of Public Health

@ PHFI-IIPH, Delhi

2 years / August Session

Eligibility

Applicants with graduate qualifications in: medical and allied fields like dentistry, AYUSH (Ayurveda, Yoga, Unani, Siddha and Homeopathy), pharmacy, physiotherapy, nursing, and veterinary science.

Applicants with graduate qualifications in: biological and life sciences (microbiology, biochemistry, biotechnology, botany, zoology), basic sciences (chemistry), occupational therapy and biostatistics.

All applicants should have basic computing skills and proficiency in English language



@ MAX Healthcare, Delhi

2 years / August Session

Eligibility

Bachelor's Degree/ Graduation (with a minimum of 55% marks) from a recognised institute in Medicine/ AYUSH/ Dentistry/ Allied and Health Sciences/ Life Sciences/ Veterinary Sciences

Bachelor's Degree/ Graduation (with a minimum of 55% marks) from a recognized institute in Statistics/ Demography/ Population Studies/ Nutrition/ Sociology/ Psychology/ Anthropology/ Social Work/ Biostatistics

Graduates from other disciplines (other than mentioned above) may also be considered
Work experience in a healthcare-related field is desirable



PGD

Post Graduate Diploma

Precision Measurement and Quality Control

@ CSIR-NPL, New Delhi / 1 year / August session

Eligibility

Eligibility B.Sc. (Physics and Maths) / B.Sc. Engg./ B.E./ B.Tech. in Mechanical/ Electrical/ Electronics/ Electronics & Communication/ Instrumentation

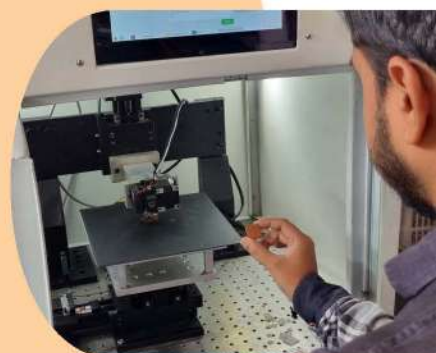


Advance Manufacturing Technology

@ CSIR-CMERI, Durgapur / 1 year / August Session

Eligibility

B.E./B.Tech/AMIE in Mechanical/Manufacturing/Production Engineering or Equivalent



Patinformatics

@ CSIR-URDIP, Pune / 1 year / August Session

Eligibility

- Master's degree in Science/Technology (Minimum 60% marks)
- M.Pharm. (Minimum 60% marks)
- B.E/ B.Tech. (Minimum 60% marks)
- L.L.B with graduation in Science (Minimum 60% marks at each degree)
- M.Lib Sci. with graduation in Science (Minimum 60% marks at each degree)
- MBA with graduation in Science (Minimum 60% marks at each degree)

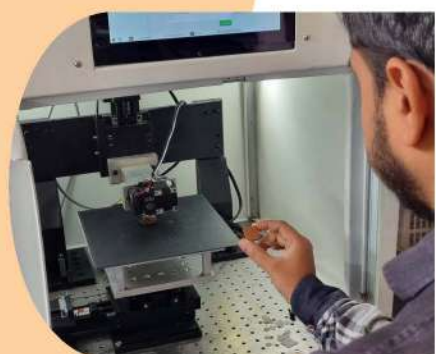


Advance Manufacturing Technology

@ CSIR-CMERI, Durgapur / 1 year / August Session

Eligibility

B.E./B.Tech/AMIE in Mechanical/Manufacturing/Production Engineering or Equivalent



INTERNATIONAL FELLOWSHIPS - JOINT PhD DEGREE (Cotutelle)

PhD students for a joint PhD degree (Cotutelle) program in one of the below-mentioned international universities.

- RMIT University, Melbourne, Australia
- University of Western Australia, Perth, Australia
- Deakin University, Geelong, Australia

Joint PhD

The selected students, as a part of their AcSIR PhD enrolment, have to spend 1 year of research at one of the above universities. These fellowships are open to all PhD students, enrolled at AcSIR, who have successfully completed their comprehensive examination by the end of third semester of their PhD enrolment.

Features of AcSIR-RMIT Joint Ph.D. Program

- The Students enrolled at both institutions under joint supervision, spend the majority of their program at the host institute (AcSIR/RMIT), and come onshore to RMIT/AcSIR for upto 12 months
- On successful completion of requirements, the students will be awarded PhDs from both AcSIR and RMIT University
- Students after the completion of 2 years in the respective institutes (AcSIR/RMIT) are eligible for this program.

Advantages to Students

- Access to world class facilities at both Institutions (AcSIR and RMIT)
- Global expertise and dual supervision between AcSIR and RMIT
- Scholarship covering living and travel expenses in India and Australia
- Doctoral PhD degree awarded by both AcSIR and RMIT in cotutelle mode.

USP of this program

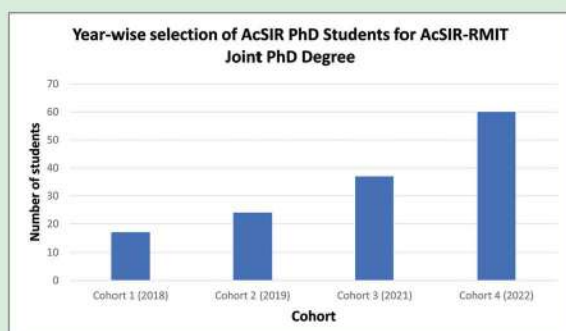
- Enable and empower students to take on global challenges
- Share their working at two institutes and two countries
- Exposure to different research environments and diversity.



RMIT is a global university of technology, design and enterprise

Royal Melbourne Institute of Technology, focuses on applied research as well as outcome-related research and consultancy services, and has extensive partnerships with government and industry. It mainly focuses its research in the areas of design, technology, health, globalisation and sustainability.

Its Portfolio of Research and Innovation operates on a similar scale to its colleges, and also contains a specialist research school in order to foster excellence in research methodology and pedagogy. Over 50 research centres operate independently within RMIT's colleges and schools as well as a large number of smaller research groups.



way forward

- 250 students in Joint Ph.D. program by 2027
- Ensure enrollment/participation of RMIT students in this Joint Ph.D. Program.



A world-class education for international students by
Partnerships with industry and government

Deakin is home to four faculties, 14 schools and 13 institutes and strategic research and innovation centres. It offers a broad and exciting range of multidisciplinary projects across the vibrant research community.

Deakin researchers have access to national and international grants and schemes. These opportunities cover a wide range of disciplines and include funding from industry, government and commercial collaborations.



Deakin University's core research strengths:

- Energy
- Smart Manufacturing (smart materials)
- Future Sustainable Infrastructure
- Agriculture, Ecology, Water, Environment & Biotech
- Critical Technology
- Technology for Health care



THE UNIVERSITY OF
**WESTERN
AUSTRALIA**

Valued industry connections, innovative courses, commitment to student experience and high-impact research

Over the years the University has acquired an international reputation for excellence and enterprise. It is regarded as one of Australia's top research institutions, attracting researchers of world standing across the range of disciplines, with international leaders in many diverse fields.



Research strengths:

- Biological Sciences
- Physical Sciences
- Chemical Sciences
- Mathematical Sciences
- Environmental Sciences
- Earth Sciences
- Agricultural & Veterinary Sciences
- Chemical Engineering
- Neurosciences
- Clinical Sciences
- Mechanical Engineering
- Oceanography

