



ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH

An Institution of National Importance established by an Act of Parliament

Admission Brochure - Jan 2027 session



Largest Academic institution for Doctoral Research in India

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ACADEMY OF SCIENTIFIC AND INNOVATIVE RESEARCH

An Institution of National Importance

The Academy of Scientific and Innovative Research was established as an "Institution of National Importance" through an Act of Parliament in 2012. AcSIR is an overarching institution encompassing 78 prestigious Research Institutes, which among others include: 38 Institutes of the Council of Scientific and Industrial Research (CSIR), 28 Institutes of the Indian Council of Medical Research (ICMR), 5 Institutes of Department of Science & Technology (DST).

VISION AND MISSION

“**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**”

OUR LEADERS



Dr. Jitendra Singh
Hon'ble Minister of State (I/C) of
Ministry of Science & Technology,
Ministry of Earth Sciences,
Minister of State in the Prime Minister's Office,
Ministry of Personnel, Public Grievances and Pensions,
Department of Atomic Energy &
Department of Space



Prof. P. Balaram
Chancellor, AcSIR
Chairperson, Board of Governors, AcSIR



Prof. N. Kalaiselvi
Director General, CSIR & Secretary, DSIR
Vice Chairperson, Board of Governors, AcSIR



Prof. Manoj Kumar Dhar
Director, AcSIR
Chairperson, Senate, AcSIR

9th CONVOCATION November 22, 2025



3

- **AcSIR is currently the largest educational institution in India for Doctoral Research in STEMM, having awarded 958 Ph.D. degrees in 2025 and with more than 7000 students currently enrolled in the Ph.D. program**
- **AcSIR offers a fully funded opportunity to its Ph.D. students to pursue a part of their research for one year in top-tier international universities, under Joint Ph.D. Degree (cotutelle mode) program**

AcSIR AT A GLANCE

RANKING



9th



14th

nature
INDEX

11th



9th



>7000

PhD students enrolled



958

PhDs awarded in 2025



>7000

Alumni



>29000

Publications by Students



>1000

PhD enrollment per year



3346

Faculty



~1200

Patents by Students



78

Campuses Pan India

ACADEMIC PROGRAMS OFFERED

Jan Session 2027

PhD in Science
PhD in Engineering
PhD in Medical Research
IDDP (Integrated Dual Degree Program)

FACULTY OF STUDIES

AGRICULTURAL
SCIENCES

BIOLOGICAL
SCIENCES

CHEMICAL
SCIENCES

ENGINEERING
SCIENCES

MATHEMATICAL
& INFORMATION
SCIENCES

PHYSICAL
SCIENCES

MEDICAL
RESEARCH

Master of Science

- Food Technology
- Clinical Research
- Wildlife Science
- Freshwater Ecology and Conservation

Master of Technology

- Farm Machinery and Power Engineering
- Design of Machinery and Equipment
- Mechatronics
- Computational Biology and Bio Engineering
- Chemical Engineering
- Polymer Engineering
- Advanced Instrumentation Engineering
- Corrosion Science & Engineering

Other Masters Program

- Master of Public Health
- Master in Healthcare Quality Management

IDDP (M.Tech + PhD)

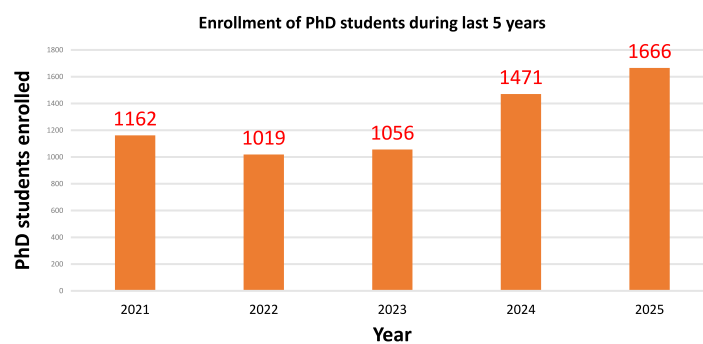
- Chemical Engineering
- Computational Biology and Bio Engineering
- Polymer Engineering
- Machine Design
- Mechatronics
- Advanced Electronics Engineering
- Materials Resource Technology
- Materials Science and Engineering
- Engineering of Structures
- Chemical Engineering
- Materials Science Engineering and Technology
- Building Engineering and Construction Technology
- Chemical and Electrochemical Engineering
- Metallurgical and Materials Engineering
- Environmental Systems Engineering and Modelling
- Advanced Instrumentation Engineering
- Mining Engineering
- Civil & Environmental Engineering
- Chemical & Bio-Chemical Engineering
- Mechanical Engineering
- Bio-technology

Post Graduate Diploma

- Precision Measurement and Quality Control
- Patinformatics
- Gardening & Nursery Management
- Lifestyle Accessories
- Leather Technology
- Public Health
- Healthcare Quality Management

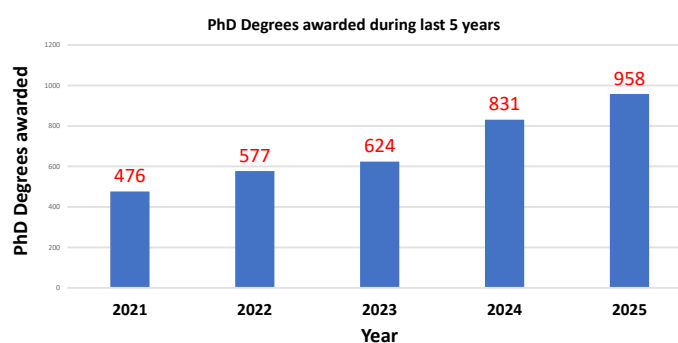
Currently AcSIR has the highest number of PhD students enrolled for PhD degree(>7000) among educational institutions in India

Ph.D Enrolled



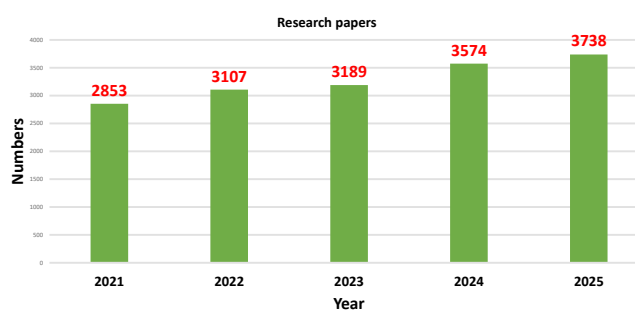
Currently AcSIR awards the highest number of PhD degrees/year among educational institutions in India

Ph.D Awarded

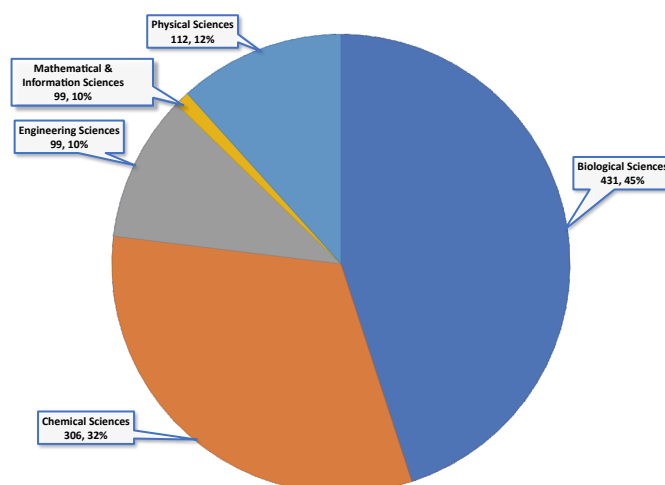


AcSIR PhD Student's Publications

Publications



Faculty-wise PhDs awarded (958) in 2025



Eligibility Criteria for Admission

PhD Sciences (Biological Sciences, Chemical Sciences, Physical Sciences, Mathematical & Information Sciences, Agricultural Sciences):

Qualifying degree:

A 2-year/4-semester Master's degree in Science or equivalent after a 3-year/6-semester Bachelor's degree in Science or equivalent, with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

A 4-year/8-semester Bachelor's degree in Science or engineering or equivalent with a minimum of 75% marks in aggregate or its equivalent grade on a point-scale.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS).

Eligible categories:

National-level fellowship (*Tenable at all AcSIR associated Research Institutes except ICMR Institutes*): Applicant should have a valid National-level Fellowship of any funding agency (e.g. CSIR, ICMR, UGC, DBT, INSPIRE, RGNE, etc).

OR

Institutional fellowship (*Tenable only at DST-CeNS, DST-IASST, DST-IIA, DST-ARIES, MoEFCC-WII, TIGS*): Applicants without any National-level Fellowship may apply for the Institutional fellowship at the select AcSIR Associated Research Institutes. *For more details, please visit the websites of the concerned AcSIR associated Research Institutes.*

OR

Temporary project staff of AcSIR Associated Research Institutes (*Tenable at all AcSIR associated Research Institutes except ICMR Institutes*): Project Assistants, Senior Research Fellows, and other temporary project staff may apply subject to fulfilling the eligibility criteria at A (Annexure-I). NOC from the current employer is mandatory.

OR

Industry/Institute Sponsored candidates (*Tenable at all AcSIR associated Research Institutes except ICMR Institutes*): Regular Employees working in an Industry/Institute; Permanent Scientific/Technical employees of Associated Research Institutes of AcSIR may apply subject to fulfilling the eligibility criteria at B (Annexure-I). NOC from the current employer (Industry/Institute) is mandatory.

Eligibility Criteria for Admission

PhD (Medical Research) (tenable only at ICMR Institutes, MAX and TIGS):

Qualifying degree:

Doctor of Medicine (D.M.) or Master of Chirurgiae (M.Ch.) or Doctor of Medicine (M.D.) or Master of Surgery (M.S.) from the National Medical Commission (NMC) (erstwhile Medical Council of India) recognized Medical College.

OR

Master's degree in Science/Public Health with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

Master's in Population Studies, Social Medicine, Community Health, Anthropology, Sociology, Social Work, Mathematical Sciences, Economics, Biostatistics and Demography with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

MCA/M.Sc in Computer Science or equivalent with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

Bachelor of Medicine and Bachelor of Surgery (MBBS), or Bachelor of Dental Surgery (BDS)/ Master of Dental Surgery (MDS), from the National Medical Commission (NMC) (erstwhile Medical Council of India) recognized Medical College, with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

4-year/8-semester bachelor's degree programme in relevant field with at least 55% marks in aggregate or its equivalent grade in a point-scale.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS).

Eligible categories:

National-level fellowship (*Tenable at all ICMR Institutes, MAX-SMAIR and TIGS*): Applicant should have a valid National-level Fellowship of any funding agency (e.g. CSIR, ICMR, UGC, DBT, RGNF, etc).

OR

Temporary project staff of AcSIR associated research institutes (*Tenable only at MAX-SMAIR and TIGS*): Project Assistants, Senior Research Fellows, and other temporary project staff may apply subject to fulfilling the eligibility criteria at A (Annexure-I). NOC from the current employer is mandatory.

OR

Industry/Institute Sponsored candidates (*Tenable at all ICMR Institutes, MAX-SMAIR and TIGS*): Regular Employees working in an Industry/Institute; Permanent Scientific/Technical employees of Associated Research Institutes of AcSIR may apply subject to fulfilling the eligibility criteria at B (Annexure-I). NOC from the current employer (Industry/Institute) is mandatory.

Eligibility Criteria for Admission

PhD (Engineering):

Qualifying degree:

A 2-year/4-semester Master's degree in Engineering/Technology (after a four year engineering/ technology degree or with an integrated 5 year B.Tech./M.Tech. degree or equivalent), with at least 55% marks in aggregate or its equivalent grade in a point-scale.

OR

A 4-year/8-semester Bachelor's degree in Engineering/Technology with a minimum of 75% marks in aggregate or its equivalent grade on a point -scale.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS).

Eligible categories:

National-level fellowship (*Tenable at all AcSIR associated Research Institutes except ICMR Institutes*): Applicant should have a valid National-level Fellowship of any funding agency (e.g. CSIR, ICMR, UGC, DBT, INSPIRE, RGNF, etc).

OR

Self-sponsored: Candidates having qualified JEST/GATE/any other National level examination and are without fellowship shall be preferred.

OR

Institutional fellowship (*Tenable only at DST-ARIES*): Applicants without any National-level Fellowship may apply for the Institutional fellowship at the select AcSIR associated Research Institutes. *For more details, please visit the website of the concerned AcSIR Associated Research Institute.*

OR

Temporary project staff of AcSIR Associated research institutes (*Tenable at all AcSIR Associated Research Institutes except ICMR Institutes*): Project Assistants, Senior Research Fellows, and other temporary project staff may apply subject to fulfilling the eligibility criteria at A (Annexure-I). NOC from the current employer is mandatory.

OR

Industry/Institute Sponsored candidates (*Tenable at all AcSIR associated Research Institutes*): Regular Employees working in an Industry/Institute; Permanent Scientific/Technical employees of Associated Research Institutes of AcSIR may apply subject to fulfilling the eligibility criteria at B (Annexure-I). NOC from the

Eligibility Criteria for Admission

Integrated Dual-Degree PhD (IDDP) Program:

Qualifying degree:

A 4-year/8-semester Bachelor's degree in Engineering/Technology, with at least 55% marks in aggregate or its equivalent grade in a point-scale.

A relaxation of 5% marks or its equivalent grade may be allowed for those belonging to SC/ST/OBC (non-creamy layer)/Differently-Abled, Economically Weaker Section (EWS).

Eligible categories:

National-level fellowship: Applicant with valid GATE/GPAT score and may apply for CSIR-GATE-JRF Fellowship (<https://www.csirhrdg.res.in/Home/Index/1/Default/3464/58>).

OR

Industry/Institute Sponsored candidates: Regular Employees working in an Industry/Institute; Permanent Scientific/Technical employees of Associated Research Institutes of AcSIR may apply subject to fulfilling the eligibility criteria at B (Annexure-I). NOC from the current employer (Industry/Institute) is mandatory with grant of leave for the first two semesters.

Eligibility Criteria for Admission

A. Eligibility for Project Assistants: -

Annexure I

- i. For the sake of determining the eligibility for PhD admission, the “Project Assistants” will be considered equivalent to all such temporary employment in on-going research projects at the institute including nomenclatures such as project JRF/SRF, project fellow/senior project fellow, project associates, research intern, etc.
- ii. Only those Project Assistants working in the Institutes may be considered for admission to AcSIR Ph.D. program who have been in temporary employment as a Project Assistant in a sanctioned R&D project in the same Institute for at least one year (one year will be determined as on the last date of submitting the application on the AcSIR admission portal as notified by AcSIR for each Academic Session in which the Project Assistant intends to seek admission for Ph.D.), and can only apply with the prior permission of the PI of the project and concurrence of the Director of the Institute;
- iii. Project Assistants who have not qualified any National level Examination, will need to have at least one patent (Filed) or one publication in a SCI journal with substantial research contribution as a coauthor by the day of application;
- iv. Project Assistants who have qualified any PhD qualifying National level Examination [NET (Category 2 and 3) as per public notice no.F.-1(UGC-NET Review Committee)/2024(NET)/140648 dated March 27, 2024, GATE, BET, JEST, etc.], even without eligible fellowship, will be exempted from the eligibility criteria of having one publication;
- v. The selection shall be made on the basis of an interview by the Selection Committee constituted at the Institute;
- vi. On completion of their tenure of the R&D project from which the student was drawing his/her fellowship, the student may be given an option to continue in the Ph.D program without a fellowship, with approval of the Director of the concerned Institute, failing which their admission in the Ph.D program will stand cancelled..

Eligibility Criteria for Admission

B. Eligibility for Sponsored Candidate:

Annexure I

- a. Candidates sponsored by Industry must be a regular employee of the Sponsoring Industry, meet the requisite academic qualifications, and are required to submit the documents supporting the following:
 - i. The candidate is a regular, full-time employee of the Sponsoring Industry.
 - ii. The Sponsoring Industry has no objection to the candidate pursuing the Ph.D. program at AcSIR and grants permission for the candidate's admission to the program, including permission to undertake the required residency at the concerned AcSIR associated Research Institute, as prescribed under the applicable rules and regulations of AcSIR.
 - iii. The Sponsoring Industry agrees to sponsor the candidate for the duration of the Ph.D. program.Sponsoring Industry is required to sign an MoU with the concerned AcSIR associated Research Institute once the candidate is selected.

OR,

- b. Candidates sponsored by Organization (R&D Institutes/ Government/ Non-Government Academic Organizations) must be a regular employee of the Organization, meet the academic qualifications, and submit the documents supporting the following:
 - i. The sponsoring Organization is recognized by the relevant statutory or regulatory body.
 - ii. The Sponsoring Organization has no objection to the candidate pursuing the Ph.D. program at AcSIR and grants permission for the candidate's admission to the program, including permission to undertake the required residency at the concerned AcSIR-associated Research Institute, as prescribed under the applicable rules and regulations of AcSIR.
 - iii. The Sponsoring Organization agrees to sponsor the candidate for the duration of the Ph.D. program.

OR,

- c. Permanent Scientific and Technical Staff of AcSIR associated Research Institutes: Group IV and Group III of CSIR and equivalent rank of other AcSIR associated Research Institutes. The candidate must strictly adhere to all guidelines and formalities of both AcSIR and the associated Research Institute.

Additional Information

1. Applicants whose final results are awaited, but are otherwise eligible as per the criteria, can also apply. If selected, they will be provisionally admitted to the program. Their continuation in the program will be subject to securing required percentage/ equivalent grade (depending on the cut-off marks for screening for the specific program), submission of marks-sheet of their final result, and meeting the other eligibility criteria, at the time of joining the program.
2. The tuition fee once paid by the student selected for PhD admission to any AcSIR Research Institute, is transferable to any other AcSIR associated Research Institute, where the student has been also selected for admission in the PhD program (including being selected from the waiting list), subject to the availability of seats. The tuition fee would only be transferable till the commencement of the academic session, as notified by AcSIR-HQs. for admission to that particular semester.

JRF positions

CSIR GATE/GPAT Junior Research Fellowships at CSIR Institutes for IDDP/ Ph.D. Program

Admission to Ph.D. / Integrated Dual Degree Program (IDDP) – January 2027 Session

Centralized Admission Process through AcSIR

The CSIR-Human Resource Development Group (CSIR-HRDG), offers Junior Research Fellowships (JRF) under the GATE/GPAT scheme to eligible engineering, biotechnology and pharmaceutical graduates for pursuing research leading to a Ph.D. degree at CSIR Institutes.

ELIGIBILITY

Candidates possessing a B.E./B.Tech. degree in an eligible engineering discipline with a valid GATE score may apply for Ph.D. (Engineering), Ph.D. (Science) and Integrated Dual Degree Program (IDDP: M.Tech + Ph.D.).

Candidates with B.Tech (Biotechnology; with valid GATE score and subject to securing a minimum 85 percentile in GATE), B.Pharm (with valid GPAT) may apply for Ph.D. (Science)

Candidates not eligible under the scheme

- Candidates possessing M.E./M.Tech. qualifications.
- Candidates eligible for CSIR-SRF-Direct.

AGE LIMIT: The upper age limit for JRF-GATE/GPAT is 28 years, with relaxation as per applicable CSIR/Government of India rules:

- up to 5 years for SC/ST candidates, women and Persons with Disabilities; and
- up to 3 years for OBC (Non-Creamy Layer) candidates.

FELLOWSHIP AND TENURE

The total tenure of the fellowship shall be up to five years, subject to satisfactory research progress and fulfilment of the prescribed terms and conditions.

Fellowship	Stipend
JRF-GATE/GPAT – first two years	₹37,000 per month
SRF-GATE/GPAT – third year onwards, subject	₹42,000 per month

An annual contingency grant of ₹20,000 per fellow, subject to the applicable CSIR-HRDG rules. Upgradation from JRF to SRF and continuation of the fellowship shall be governed by the prescribed CSIR-HRDG norms and assessment of research progress.

IMPORTANT CONDITIONS

1. Candidates must fulfil the applicable academic eligibility requirements prescribed for the program and the participating CSIR Institute.
2. Since the fellowship is awarded for pursuing a Ph.D., there shall be no automatic exit after completion of M.Tech. under the IDDP.
3. The number of JRF positions offered shall be subject to availability of funds and approval of the competent authority, CSIR.
4. Reservation shall be applicable in accordance with the Government of India rules.
5. Fellows shall be governed by the applicable rules and regulations of CSIR-HRDG, the concerned CSIR Institute and AcSIR, as applicable.

DETAILS AVAILABLE AT: <https://csirhrdg.res.in/Home/Index/1/Default/3522/58>

APPLY ONLINE: www.acsir.res.in/admissions

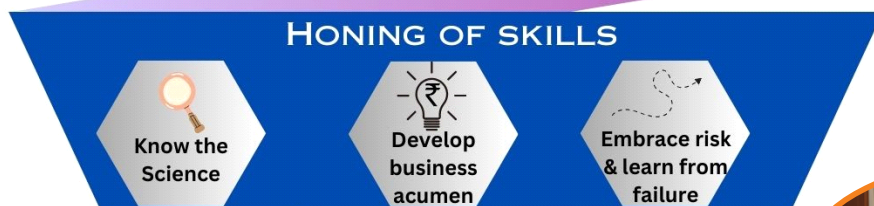
First of its kind in INDIA

iPhD

imaginative, innovative, industry linked program



Student to Sciencepreneur

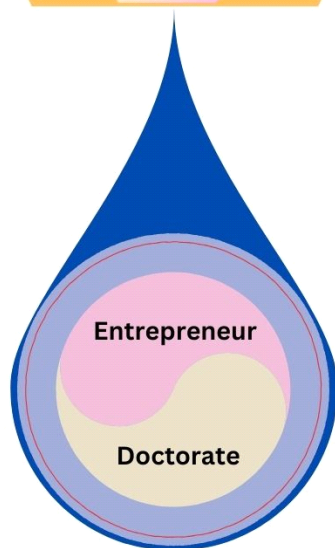


Agreement signed between AcSIR & NIF-India

AcSIR - NIF Doctoral Innovation Fellowship

**Last date to be
announced shortly**

Scan here



Features

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

Partner



National Innovation Foundation

Five students have
joined in First cohort

Structure of the *i*PhD program

Program focus

Research to develop new product/ technology for Nation Progress & societal good

Eligibility

Master degree holder with demonstrated entrepreneurial activities

Mentorship

- Selected candidates shall jointly be supervised for Ph.D. by the faculty of AcSIR and Industrial expert
- Potential AcSIR Supervisors should possess documented experience in Industrial Projects; OR, Filed patent(s); OR Industrial Technology development

Coursework

- Minimum credit requirement of 18 credits
- Built-in flexibility for completing the specially designed courses, as detailed (cont. in next page)

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

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 is 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.

*i*Ph.D

Student to Sciencepreneur

(Notification for *i*PhD will be released shortly for Jan 2026)

iPhD program

Coursework

- Minimum credit requirement of 18 credits
- Built-in flexibility for completing the specially designed courses, as detailed (cont. in next page)

Research Methodology: 4

Research & Publication Ethics: 2

Credits from Advanced Courses of the domain: 6 credits

Credits from the Innovation, Start-up, Management domain: 6 credits

Core Coursework (to be completed within 3 years of enrolment, from SWAYAM / NPTEL or alternate arrangement):

1. Innovation and Start-up Policy (SWAYAM)

The policy framework for promoting innovation and startups in India; the innovation ecosystem, including institutions and key concepts. Innovation and Innovation Ecosystem; Policy Framework; Startup Landscape and Innovation Hubs; Digital India and Make in India; Linking Innovation with IPR; Raising Finance for Startups in India; Innovation in Indian Context; Writing a Business Plan

2. Managing Innovation (SWAYAM)

To develop an innovative mindset, design thinking, and managing Research & Development. The process of innovation; Developing an innovative mindset; Design thinking for innovation; Managing Research & Development; Open innovation; Creating an innovative organization; Measuring and sustaining innovation; Systematic approach to innovation; Building an innovation pipeline; Improving idea velocity; Enhancing business impact through an 8-step methodology.

3. Valuation and Creating Sustainable Value (SWAYAM)

Valuing companies and projects, with an emphasis on sustainable value creation. Fundamental concepts in finance, accounting, and valuation; Introduction to Valuation; Discounted Cash Flow Method; Relative Valuation; Real Options; Value Enhancement: Strategic choices; Start-up Valuation; Drivers for Creating Sustainable Value; Framework for Sustainable Growth

4. IP Management & Technology Transfer (NPTEL)

To understand the principles of Intellectual Property (IP) and its management. Covers patents, trademarks, copyrights, and trade secrets. Technology transfer processes and commercialization of inventions. Introduction to IP & IP Management; IP Lifecycle Management; Use of IP Analytics for IPM; Technology Transfer Concepts and Methods; IP and Technology Transfer Contracts; Commercialization of Inventions.

AcSIR associated Research Institutes



- Council of Scientific and Industrial Research (CSIR) - 38
- ▲ Indian Council of Medical Research (ICMR) - 28
- Other Research Institutes - 12

38 Institutes of CSIR

**AcSIR Associated
Research Institutes**

Faculty of Studies

Areas of Research

CSIR - Advanced Materials and Process Research Institute, Bhopal



CSIR-AMPRI, BHOPAL

Engineering Sciences

Biological Sciences

- Alloys, Composites & Cellular Materials
- Green Engineered & Additive Manufacturing
- Hybrid Building Materials & Manufacturing
- Industrial Waste Utilization, Nano & Biomaterials
- Intelligent materials & Advanced Processes
- Water Resources Management & Rural Technologies

CSIR - Central Building Research Institute, Roorkee



CSIR-CBRI, ROORKEE

Engineering Sciences

- Advanced Concrete, Steel & Composites
- Architecture Planning and Energy Efficiency
- Building Materials & Environmental Sustainability
- Construction Automation & Robotics
- Fire Safety Engineering
- Geotechnical Engineering & Geohazards
- Heritage & Special Structures
- Structural Engineering

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

Chemical 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
- 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
- Electrodeics & 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 Systems
- 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 Agricultural 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, Bengaluru



CSIR-4PI, BENGALURU

Mathematical & Information Sciences

Data Science and Supercomputing
Earth & Engineering Sciences

Biological Sciences



CSMCRI
CSIR-CSMCRI, BHAVNAGAR

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

Chemical Sciences

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
Elecro & 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, PALAMPUR

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 - 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

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

Chemical Sciences

- Natural Products & Medicinal Chemistry
- Phytochemistry
- Synthetic Chemistry
- Quality Management & Instrumentation

Biological Sciences

- Fermentation and Microbial Biotechnology
- Infectious Diseases
- Computational Biology
- Plant Sciences and Agrotechnology (PSA)

Agricultural Sciences

CSIR - Indian Institute of Petroleum, Dehradun

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 - Indian Institute of Toxicology Research, Lucknow



CSIR-IITR, LUCKNOW

Biological Sciences

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

CSIR - Institute of Minerals and Materials Technology, Bhubaneswar

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 - Institute of Microbial Technology, Chandigarh



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 - National Aerospace Laboratories, Bengaluru



CSIR-NAL, BENGALURU

Engineering Sciences

Aircraft Design and Development
Structural Technology
Aerodynamics
Flight Dynamics and Controls
Propulsion systems
Aerospace Electronics and Systems
Materials Science and Technology
Unmanned Aerial Vehicles (UAVs)
Space Technology

CSIR - National Botanical Research Institute, Lucknow



CSIR-NBRI, LUCKNOW

Biological Sciences Agricultural Sciences

Plant Molecular Biology
Biodiversity
Taxonomy
Environmental Science
Plant Microbe Interaction
Phytochemistry
Soil Science

CSIR - National Chemical Laboratory, Pune



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

Chemical Sciences

New catalytic materials
Energy Materials
Hydrogen / Green energy
Nano-materials & nanoparticles
Process chemistry
Biocatalysis
Photochemistry & Photocatalysis
Heterogeneous catalysis
Multifunctional materials
Carbon capture & utilization
Chemical Biology
Computational Chemistry
Analytical Chemistry
Separation Science
Climate Change and Green Material
Chemical and Hazardous Waste Management
Air Pollution
Meteorology
Earth and Atmospheric Chemistry
Water and Wastewater Management
Emerging contaminants & Persistent organic pollutants
Environmental Monitoring & assessment
Environmental Remediation
Analytical Method Development
Environmental Sciences
Solid & Hazardous Waste Management
Waste-to-Wealth (Resource recovery)
Life cycle analysis
Environmental Sustainability

Biological Sciences

Zoology
Botany
Microbiology
Virology
Microbial Biotechnology
Molecular Biology
Biomaterials
Biochemistry
Bio-Carbon Capture and Utilization
Biomass to Chemicals
Biorefinery & Bio-manufacturing
Photobiology
Bioinformatics
Environmental Toxicology & Health Risk Assessment
Environmental Genomics
Environmental Biotechnology
Wastewater Management
Industrial Ecology
Solid & Hazardous Waste Management
Environmental Sciences
Environmental Material and Sustainable Systems
Biocircular economy
Carbon flux assessment
Bio-remediation
Biofuel

Physical Sciences

Air Pollution Control
Meteorology
Earth and Atmospheric Science
Environmental Impact and Sustainability
Geology
Hydrogeology
Geophysics
Soil & Water Conservation
Water Resources Development & Management
Environmental Sciences
Energy and Resource Management
Air Quality Management
Air Pollution Control
Emission Monitoring
Water & Earth Systems
Environmental Impact Assessment, Audit & Planning
Solid & Hazardous Waste Management
Remote sensing and GIS for Environmental application

Engineering Sciences

Air Pollution Control
Environmental Impact and Sustainability
Energy and Resource Management
Soil & Water Conservation
Water Resources Development & Management
Environmental Engineering
Waste Water Engineering
Chemical and Hazardous Waste Management
Cleaner Technology and Modelling
Water Technology and Management
Environmental Biotechnology and Genomics
Climate Change and Green Material
Environmental Audit and Policy Implementation
Circular economy & Life cycle assessment
Environmental Sustainability
Clean Energy & Process Engineering
Environmental Systems Modelling
Remote sensing and GIS for Environmental application

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
Thermal Geophysics, Rock Mechanics and
-Paleomagnetism

CSIR - National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram



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, New Delhi

Mathematical & Information Sciences

Agricultural 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 - National Physical Laboratory, New Delhi



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

28 Institutes of ICMR

The Indian Council of Medical Research (ICMR) Hqrs. New Delhi



ICMR- HQRS. NEW DELHI

Medical Research

Formulation, coordination and promotion of biomedical research

Translating medical innovations in to products/processes and introducing them in to the public health system

ICMR-National JALMA Institute for Leprosy & Other Mycobacterial Diseases, Agra



ICMR-NJIL&OMD, AGRA

Medical Research

Leprosy
Tuberculosis
Mycobacteriosis
HIV
Filariasis

ICMR-National Institute of Traditional Medicine, Belagavi



ICMR-NITM, BELAGAVI

Medical Research

Traditional Medicine: lifestyle and metabolic diseases, geriatric and mental disorders, viral infections

ICMR-National Institute of NCD Epidemiology, Bengaluru



ICMR-NINE, BENGALURU

Medical Research

Cancer
Diabetes
CVD
Stroke

ICMR-National Institute for Research in Environmental Health, Bhopal



ICMR-NIREH, BHOPAL

Medical Research

Environmental Health
Epidemiological Research

ICMR -National Institute for Research on Blood and Immune Disorders, Mumbai



ICMR-National Institute of Epidemiology, Chennai



ICMR-National Institute for Research in Digital Health, New Delhi



ICMR-National Institute of Health Research, Dibrugarh



ICMR-National Institute of Pre-Clinical Research, Hyderabad



ICMR-National Institute of Tribal Health Research, Jabalpur



ICMR- NITHR, JABALPUR

Medical Research

Tribal Health

ICMR-National Institute for Research on Women's Health, Mumbai



ICMR-NIRWoH, MUMBAI

Medical Research

Reproductive Health

ICMR-Rajendra Memorial National Institute of Health Research, Patna



ICMR-RMRNIHR, PATNA

Medical Research

Visceral Leishmaniasis (Kala-azar)
HIV/AIDS
Tuberculosis

ICMR-National Institute of Vector Control Research, Puducherry



ICMR-NIVCR, PUDUCHERRY

Medical Research

Mosquito borne diseases
HIV and drug abuse
Trematode infection
Haemoglobinopathies
Cancer nasopharynx, oesophagus, stomach
Cardiovascular diseases
Medicinal plants of NE India
Nutrition

ICMR-National Institute of Virology, Pune



ICMR-NIV, PUNE

Medical Research

Cell Repository
Electron Microscopy
Rickettsioses
Hepatitis
Influenza and related viruses
Clinical Virology
Biochemistry
Virus Registry
Biostatistics

ICMR-National Institute of Occupational Health Research, Ahmedabad



ICMR-Bhopal Memorial Hospital & Research Centre, Bhopal



ICMR-National Institute of Health Research, Bhubaneswar



ICMR-National Institute for Research in Tuberculosis, Chennai



ICMR-National Institute of Child Health Research, New Delhi



ICMR-National Institute of Malaria Research, New Delhi



ICMR- NIMR, NEW DELHI

Medical Research

Malaria Eradication: Basic, applied and operational field research

ICMR-National Institute of Health Research, Gorakhpur



ICMR-NIHR, GORAKHPUR

Medical Research

Acute Encephalitis Syndrome (AES)
HIV
Multi drug resistant (MDR)
Tuberculosis
Vector borne diseases like JE, Dengue, and filariasis
Juvenile diabetes and myocarditis
Child and maternal health

ICMR-National Institute of Nutrition, Hyderabad



ICMR-NIN, HYDERABAD

Medical Research

Elimination of Malnutrition

ICMR-National Institute of Health Research Jodhpur



ICMR-NIHR, JODHPUR

Medical Research

Cardiovascular diseases
Chronic respiratory diseases
Environmental health
Nutritional disorders
Cancers
Injury & trauma
Mental illnesses including substance abuse
Genetic diseases

ICMR-National Institute for Research in Bacterial Infections, Kolkata



ICMR-NIRBI, KOLKATA

Medical Research

Bacteriology
Clinical Medicine
Electron Microscopy
Epidemiology
Immunology
Parasitology
Pathophysiology
Virology

ICMR-National Institute of Cancer Prevention and Research, Noida



ICMR-Regional Medical Research Centre, Sri Vijaya Puram



ICMR-National Institute of Translational Virology and AIDS Research, Pune



5 Institutes of DST

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-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 - Wadia Institute of Himalayan Geology, Dehradun



DST-WIHG, DEHRADUN

Physical Sciences

- Earth and Environmental sciences -including Geophysics

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

DST-Aryabhata Research Institute of Observational Sciences, Nainital



DST-IIA, NAINITAL

Physical Sciences

- Astronomy & Astrophysics
- Atmospheric Science
- Engineering Research

3 Institutes of different Ministries and 1 Institute of Govt. of U.P.

MoEFCC - Wildlife Institute of India, Dehradun



Biological Sciences

Wildlife Science
Biological Sciences

MoES, Indian Institute of Tropical Meteorology, Pune



MoES-IITM, PUNE

Physical Sciences

Climate modelling,
Climate change projections,
Climate variability and Climate dynamics,
Extended range and Seasonal forecasts,
Physics and dynamics of tropical clouds,
Boundary layer turbulence,
Aerosol-cloud-precipitation interaction,
Air pollution monitoring,
Modelling and prediction,
Satellite and radar meteorology
Paleoclimatology.

MoHFW-National Institute of Biologicals, Noida



MoHFW-NIB, Noida

Biological Sciences

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

Centre of Biomedical Research, Lucknow



CBMR, LUCKNOW

An autonomous body of the Govt. of U.P.

Biological Sciences

Molecular Synthesis & Drug Discovery
NMR & Metabolomics
Functional MRI

3 Non-Govt. Institutes

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

PHFI - Indian Institute of Public Health, Hyderabad



PHFI-IIPH, Delhi

Biological Sciences

- Nutrition
- Bio-Statistics
- Health Information System

Max Society of Medical Academics Innovation and Research (MAX-SMAIR), Gurugram



MAX-SMAIR, GURUGRAM

Biological Sciences

- NCDs
- Infectious Diseases
- Oncology
- Molecular Diagnostics
- Clinical Research

AcSIR GLOBAL ACADEMIC PARTNERSHIPS



Joint PhD Degree (Cotutelle) Program

A key component of AcSIR's global academic partnerships is the Joint PhD Degree Program, offered in the Cotutelle mode. This program provides doctoral scholars the opportunity to earn a degree jointly awarded by AcSIR and a leading International partner university. By integrating world-class mentorship, diverse research environments, and access to advanced facilities, the program significantly enriches the research experience.

Designed to leverage the combined expertise, supervision, and research infrastructure of both institutions, the Cotutelle model ensures rigorous and comprehensive research training. This collaborative approach fosters innovation, enhances scholarly excellence, and broadens the academic and professional horizons of participating students.

Through engagement across two institutions and cultures, scholars gain global perspectives, strengthen their research capabilities, and build strong international networks. More than a degree, the Joint PhD Program empowers researchers to create meaningful impact and prepares them for successful careers in an increasingly interconnected scientific world.

AcSIR has established active partnerships with renowned international universities to foster advanced research collaboration, promote student mobility, and strengthen global academic cooperation. These partnerships focus on key thrust areas such as aerospace, electronics and instrumentation; ecology, environment, earth sciences, ocean and water; energy (conventional and non-conventional) and energy devices; chemicals (including leather) and petrochemicals; agriculture and nutritional biotechnology; health care and medical research; mining, minerals, metals and materials; and civil infrastructure and engineering.

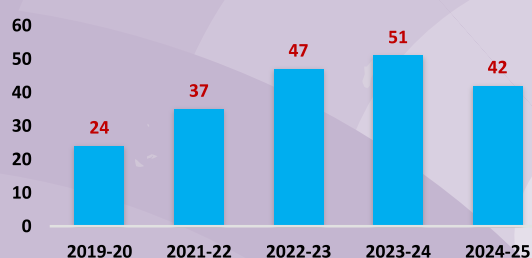
At present, AcSIR offers an International Joint PhD Program with the following six prestigious universities:

- University of Melbourne, Australia
- RMIT University, Melbourne
- University of Western Australia, Perth,
- Deakin University, Melbourne,
- Murdoch University , Perth
- University of Agder, Norway and
- Macquarie University, Sydney
- Queensland University of Technology
- University of New South Wales

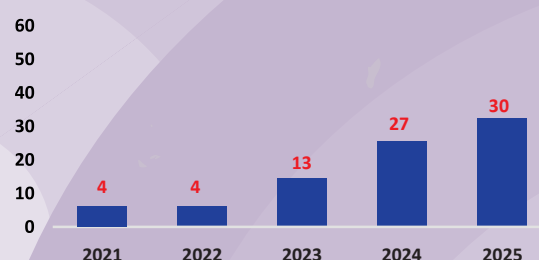
KEY FEATURES OF INTERNATIONAL JOINT PhD PROGRAM

- Joint supervision by faculty from both institutions
- Award of Joint PhD degrees from both the institutions upon successful completion of the program
- Monthly stipend from the host institution for up to 12 months during the student's stay at the host institution
- Full tuition fee waiver by the host institution for the entire duration of the Joint PhD program
- Comprehensive health cover for up to 12 months and a relocation grant, including international return airfare and visa fees

AcSIR International Joint PhD Program enrolment



AcSIR International Joint PhD program degrees awarded



AcSIR GLOBAL ACADEMIC PARTNERS



University of Melbourne, Australia

Ranked No. 1 in Australia and 19th worldwide (QS 2026), the University of Melbourne is a leader in research and innovation. AcSIR formalized its partnership on March 3, 2025, to launch a Joint PhD Program, enabling students to access world-class research environments and collaborate with some of the brightest minds in diverse disciplines.



RMIT University, Melbourne, Australia

Established in 1887, RMIT is a global university of technology, design, and enterprise, known for its innovation and industry connections. AcSIR's Joint PhD Program with RMIT began in 2017 and was renewed in 2022 for another five years, offering students opportunities to engage in impactful, applied research with international relevance.



Deakin University, Melbourne, Australia

Deakin University is renowned for its world-class teaching, strong industry focus, and leadership in digital learning. Since 2022, AcSIR and Deakin have partnered to offer Joint PhD opportunities in critical areas such as advanced manufacturing, energy, healthcare technologies, AI and cybersecurity, climate adaptation, agriculture, and future infrastructure empowering students to tackle global challenges through research.



University of Western Australia (UWA), Perth, Australia

Ranked 77th globally (QS 2026), UWA is one of Australia's leading research-intensive universities with strong global collaborations. The AcSIR–UWA Joint PhD Program, initiated in 2022, provides students with access to pioneering research, advanced facilities, and an inspiring academic community in one of the world's most livable cities.



University of Agder (UiA), Norway

A young and dynamic university located in southern Norway, UiA is known for its international outlook and vibrant research culture. On April 1, 2025, AcSIR and UiA signed an agreement to establish a Cotutelle Doctoral Program, giving students the chance to pursue globally relevant research in a collaborative and innovative academic setting.



Murdoch University, Perth, Australia

A research-led institution known for its multidisciplinary and translational research with real-world impact, applies knowledge from laboratories and public policy to address pressing societal and environmental challenges. Building on this shared vision, AcSIR and Murdoch University signed a Joint PhD Degree Agreement on 17 December 2025, fostering collaborative doctoral research aimed at impactful outcomes for society, industry, and the environment.



University of Turku, Finland

The University of Turku (UTU) is one of Finland's leading multidisciplinary universities, fostering impactful international research and education. AcSIR and UTU signed an MoU in April 2024 to promote Joint Doctoral Programs, student exchanges, collaborative R&D, mentorship, and faculty exchange broadening opportunities for AcSIR students to learn and innovate globally.



National Institute of Advanced Industrial Science and Technology (AIST), Japan

AIST is one of the world's largest public research organizations, driving scientific and industrial innovation. AcSIR and AIST established their partnership in October 2024 to advance training in life sciences and biotechnology. The collaboration focuses on hands-on learning in cutting-edge cell culture techniques, organoid systems, and molecular studies of bioactive compounds—equipping students with skills at the frontiers of science.



École Centrale de Nantes, France

AcSIR and École Centrale de Nantes have established a jointly supervised doctoral framework enabling the award of dual doctoral degrees upon successful thesis defense. The collaboration reflects a flexible cotutelle model aligned with institutional regulations, strengthening AcSIR's research engagement with leading European institutions.



Macquarie University, Sydney, Australia

Macquarie University is globally recognised for its excellence in key research disciplines and for producing graduates who are among the most sought-after professionals worldwide. AcSIR formalised a Cotutelle Framework Agreement with Macquarie University on March 10, 2026, to initiate a Joint PhD Programme aimed at strengthening collaborative research and fostering deeper academic engagement.



Queensland University of Technology (QUT), Brisbane, Australia

QUT, Australia, is a leading institution known for its strong focus on industry-engaged research and real-world impact, with strengths spanning emerging technologies, energy, engineering, quantum science, artificial intelligence, and sustainability. Aligned with this vision, AcSIR, India, and QUT signed a Joint PhD Degree (Cotutelle) Agreement on 28 March 2026 at the CSIR Science Centre, New Delhi. This collaboration aims to promote joint supervision, researcher mobility, and deeper academic engagement, creating new opportunities for impactful international research.



University of New South Wales (UNSW), Australia

UNSW Sydney is a globally renowned research-intensive university, recognized for excellence in engineering, science, technology, health, business, and innovation. With a strong commitment to addressing global challenges through impactful research and international collaboration, UNSW is consistently ranked among the world's leading universities. Reflecting a shared commitment to research excellence and international academic cooperation, AcSIR and UNSW signed a Joint PhD Programme Agreement on 8 July 2026. The partnership enables collaborative doctoral research through joint supervision and researcher mobility, providing scholars with opportunities to benefit from the complementary strengths of both institutions.



AcSIR Online Admission Portal

- For Admission Process, an Applicant needs to follow two phases:

1. Sign-Up phase:

- An applicant can Sign up for submitting online application to the session (i.e. January 2027) to a single program of study.
- Once applicant successfully Sign-Up on AcSIR Online Admission Portal, applicant will receive auto email on their email-id with login credentials and link to be re-directed for further complete admission form fill-up process.

2. Online Application Form Phase:

- On completion of AcSIR Online Application form, AcSIR Application Number (AAN) will be generated e.g. AcSIR12345. This AAN shall be used in future correspondence between applicant and AcSIR.
- Pay the application fee (Rs. 1000 for General/OBC/EWS and Rs. 500 for the SC/ST/PWD/Women candidates)**
- Print Acknowledgement of Admission Receipt with AcSIR Application Number (AAN).
- Important dates of admission process and any other update or information will be flashed on Portal-Please check regularly.
- An applicant may apply for multiple programs based on interest and eligibility, however, for each Program of study, only one application is allowed for an applicant. If, at any time, it is found that more than one application is filled by a candidate then the candidature will be summarily rejected.
- Short-listed candidates will be intimated electronically and they will be required to appear for Test and/or Interview at the designated centres on the dates announced, based on which final selection would be made.

Number of seats available in each program at each Institute may vary.

Semester Fee Structure:

Sl. No.	Academic Program (For 2027 Cohort)	Regular/Semester in Rs.	Sponsored/Semester in Rs.
1	PhD (Science)	15000	30000
2	PhD (Engineering)	15000	30000
3	PhD (Medical Research)	15000	30000
4	IDDP in Engineering	15000	30000

Academic Requirements for different Academic Programs of Study

Academic Program	Minimum number of Credits		Minimum Residency Period	Period of Completion (Years)	
	Course Work*	Research/Project		Min	Max@
Faculty of Biological Sciences, Chemical Sciences, Physical Sciences, Mathematical & Information Sciences, and Engineering Sciences					
Ph.D - Science	18	Submission of thesis	Full time	3	6
Ph.D - Science (Industry/Institute Sponsored)	18	Submission of thesis	\$	3	6
PhD - Engineering	18	Submission of thesis	Full Time	3	6
PhD - Engineering) (Industry/Institute Sponsored)	18	Submission of thesis	\$	3	6
IDDP#	70	Mini-project: 4; Project: 24; Submission of thesis	Full Time	2+3=5	2+6=8
IDDP# (Industry/Institute Sponsored)	70	Mini-project: 4; Project: 24; Submission of thesis	2 semesters	2+3=5	2+6 =8
Faculty of Medical Research					
Ph.D – Medical Research	18	Submission of thesis	Full time	3	6
Faculty of Agricultural Sciences					
Ph.D - Science	25 + 10	Submission of thesis (75)	Full time	3	6

IDDP: Integrated Dual Degree Program in Engineering

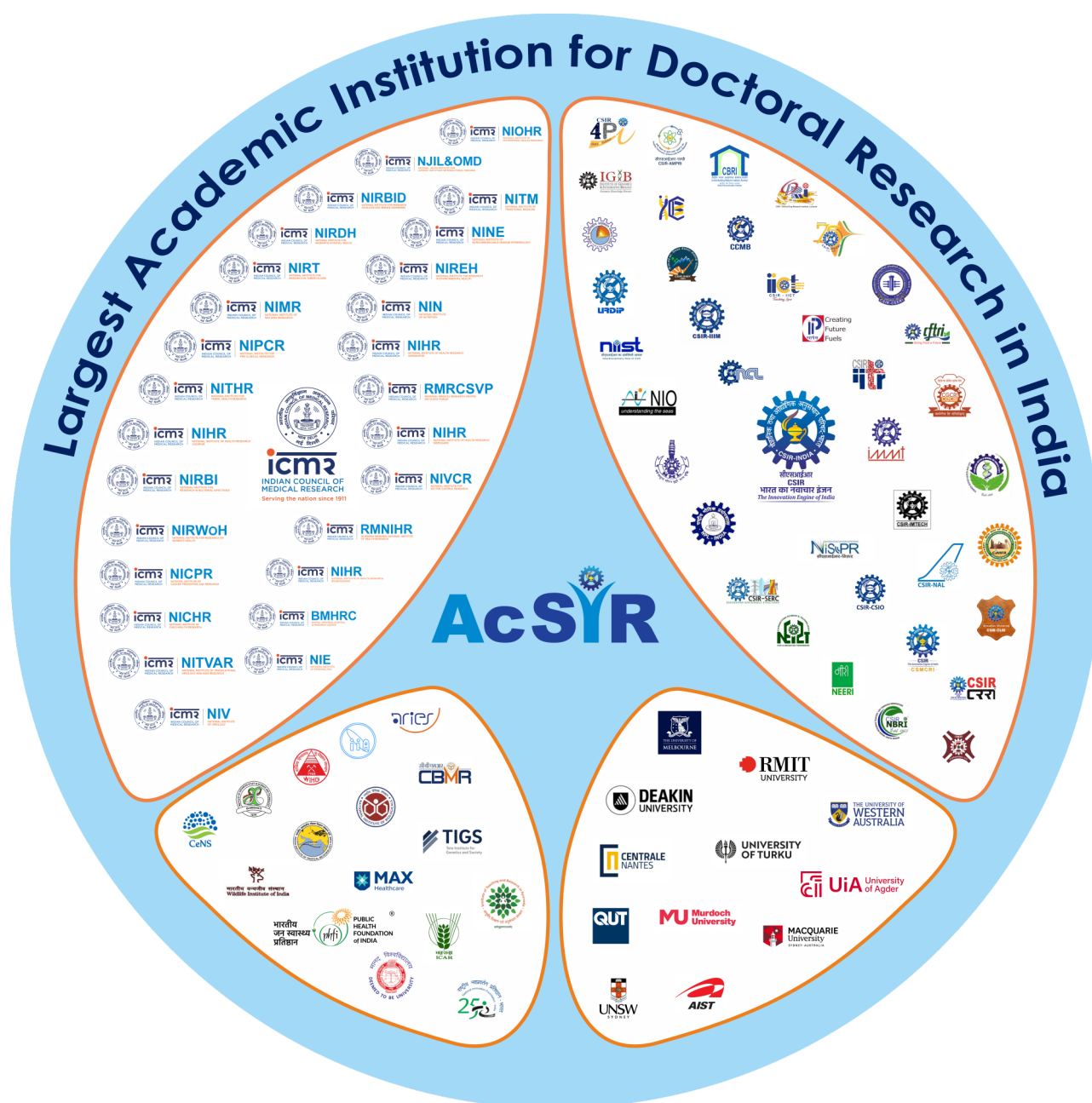
@ The women candidates and persons with disability (more than 40%) may be allowed a relaxation of two years for Ph.D. in the maximum period of completion.

*Additionally, an audit course on "IPR Management" (1 credit) is mandatory.

\$ Students selected under the Industry/Insitute Sponsored route are required to complete their coursework at the AcSIR associated Research Institute in which they are enrolled.

PhD students with 4-year UG degree will undertake an additional academic year comprising of Masters' Level coursework; and a mini-research project, the credit requirements for which will be notified in due course of time

To satisfy the "Minimum Residency" a student must undertake the academic program without any break; exceptions will be only made if the student is on authorized leave. The period of residency would be counted from the student's official joining date in his/her academic program of study.



For admission related queries please send mail to:
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