



- Integrated M.Tech - Ph.D Programme
- Ph.D Programme in Science & Engineering
- Integrated Ph.D in Engineering

## PROGRAMME DETAILS FOR INDUSTRY SPONSORED CANDIDATES

# INDUSTRY SPONSORED CANDIDATES

## WHY STUDY AT AcSIR?

The objective of AcSIR is pursuit of excellence as well as doing something relevant. We promote the culture of being singularly dynamic and innovative. The Academy was established by a Resolution of the Parliament in 2010 and received recognition as an "Institution of National Importance" by the Academy of Scientific and Innovative Research (AcSIR) Act 2011. The Academy aims to maximize the number of qualified researchers and professionals of impeccable quality in the domain of science and engineering; and to equip them with the skills to innovate and conduct seamless interdisciplinary research.

## FACULTY

There are over 2,000 Scientists of CSIR as Faculty members of AcSIR along with Eminent Academy Professors, Distinguished Emeritus Professors and Adjunct Faculty members from reputed Institutions and Companies.

## ABOUT PROGRAMMES

### 1. Ph.D Programme in Sciences & Engineering and Integrated Ph.D in Engineering

The Ph.D in Science, Engineering and Integrated Ph.D in Engineering programmes, which equip students to undertake interdisciplinary research by providing a broad-based practical training in best in the class national laboratories of CSIR. The Programmes are structured around two initial years of coursework, including formal coursework in first two semesters; one Project Proposal & one Review Article writing in the third semester; and CSIR-800 project in fourth semester; followed by three years of research.

### 2. Integrated M.Tech-Ph.D programme

It is a **2+3 years programme** which is segregated into two segments:

- M.Tech programme (2 years) consisting of four- semesters and
- Ph.D programme (3 years) after successful completion of M.Tech will be decided on a case-to-case basis.

The programmes are designed to give in-depth exposure and hands-on R&D experience to the candidates in the respective areas. The selected candidates will be trained on exciting live projects

so that they emerge as research ready scientists/ engineers for taking up challenging positions.

## ELIGIBILITY CRITERIA

### 1. Integrated M.Tech-Ph.D programme

Bachelors Degree in Engineering/ Technology\* under **10+2+4/ 10+3+3** system with minimum 70% marks or 7.0 CGPA.

### 2. Integrated Ph.D in Engineering

Bachelors Degree in Engineering/ Technology\* +2 year Industry work experience.

### 3. Ph.D programme

Master's degree in Science/ Engineering\*.

\* with endorsement from Industry for financial support during studies.

There shall be no bar on age for Industry/ Project Sponsored Candidates.

## ADMISSION PROCESS

**Industry/ Project Sponsored Candidates** shall contact the CSIR lab of interest and should receive a-priori approval from the lab for the position. Also, such candidates are advised to receive a commitment from a faculty of the concerned lab agreeing to act as a Guide/ Advisor. Thereafter the regular admission process will be followed. Please visit AcSIR website (<http://acsir.res.in>) for on-line application form submission and additional details.

The Employing organization of such Sponsored Candidates will have to support the student during his/ her tenure as a student at AcSIR and will have to provide a No Objection Certificate for such an enrolment. Such candidates will have to be a residential student for the coursework of their M.Tech/ Ph.D programmes, respectively as in the following table.#

Short-listed candidates for the different positions will be intimated electronically and they will be informed (electronically) to appear for interview for selection at the designated centers on the dates announced. Details of interview centers will be posted on the AcSIR website (<http://acsir.res.in>).

In addition to their academic performance and/ or depending on the vacancies, final selection will be based on performance of the candidate in the interview.

## ACADEMIC REQUIREMENTS FOR INDUSTRY SPONSORED CANDIDATES

Programme	Min. Total Credits	Min. Credits thro' coursework	Credits thro' Research/ Project	Min. Residence Period #	Normal Period of Completion #	Max. Duration of Completion
M.Tech	64	32	32	2 Sems	2 years	3 years
Integrated M.Tech-Ph.D (Engg.)	12*	4	Completion of thesis	3 Sems	3 years	4 years
Ph.D	16*	8	Completion of Thesis	1 Sems	3 years	4 years
Integrated Ph.D in Engineering (Direct Ph.D)	28*	16 (M.Tech level) + 4 (Ph.D level)	Completion of thesis	3 Sems	5 years	6 years

\* For Ph.D part of programme, two 4 credit courses are mandatory as per the following:

- One Review Article and One Project Proposal to be prepared before Comprehensive Exam by selecting topics of high relevance and novelty, and will have state-of-the art review, methodologies, recommendations etc. (2 credits each)
- Six-Eight weeks have to be dedicated on a project concerned with societal/ rural issues under the CSIR-800 Project(4 credits). This needs to be completed before submission of thesis.

# Depending on the merit of the case this may be reduced/ waived.

## PROGRAMME FEE STRUCTURE

Programme	Programme Fee per annum (INR)	Thesis Submission Fee (INR)
M.Tech	96,000	-
Ph.D	24,000	25,000

**Note:** Hostel Boarding and Lodging Charges shall be as applicable.

For Foreign Nationals Tuition Fees shall remain same.

IMP candidates will have an exit option available upon completion M.Tech.

## EVALUATION PROCEDURE AND GRADING SCHEME

Letter grades will be awarded for each course reflecting the student's proficiency and instructor's expectation. The grades and their description along with their equivalent numerical values, where applicable, are as follows:

Letter Grade	Performance	Numerical Value
A+	Outstanding	10
A	Excellent	9
B+	Very Good	8
B	Good	7
C+	Average	6
C	Not Qualified	5
S	Satisfactory (for Thesis)	
X	Unsatisfactory (for Thesis)	

Performance of the student will be evaluated by two indices, Semester Grade Point Average (SGPA) and Cumulative Grade Point Average (CGPA). These will be calculated as follows:

- SGPA** = {Sum of (Course credit X Numerical value of course grade)} / Total course credits earned in the semester
- CGPA** = Cumulative points scored in all passed courses / Cumulative credits earned

A student needs to have a SGPA of over 6.0 in each semester and a CGPA of over 6.5 from second semester onward for continuation. Minimum grade point to be earned to pass any subject is 6.0.

For distinction, the student needs to score CGPA of 8.0 or above.

# INDUSTRY SPONSORED CANDIDATES

INTERESTED CANDIDATES MAY APPROACH THE FOLLOWING LABORATORIES FOR FURTHER DETAILS:

Research Labs	Name of the CSIR Lab	Website (http://)
CSIR-4PI	CSIR Fourth Paradigm Institute, Bangalore (Formerly, Central for Mathematical Modeling and Computer Simulation)	www.cmmacs.ernet.in
CSIR-AMPRI	Advanced Materials and Processes Research Institute, Bhopal	www.ampri.res.in
CSIR-CBRI	Central Building Research Institute, Roorkee	www.cbri.org.in
CSIR-CCMB	Centre for Cellular & Molecular Biology, Hyderabad	www.ccmb.res.in
CSIR-CDRI	Central Drug Research Institute, Lucknow	www.cdriindia.org
CSIR-CECRI	Central Electrochemical Research Institute, Karaikudi	www.cecri.res.in
CSIR-CEERI	Central Electronics Engineering Research Institute, Pilani	www.ceeri.res.in
CSIR-CFTRI	Central Food Technological Research Institute, Mysore	www.cftri.com
CSIR-CGCRI	Central Glass & Ceramic Research Institute, Kolkata	www.cgcric.res.in
CSIR-CIMAP	Central Institute of Medicinal & Aromatic Plants, Lucknow	www.cimap.res.in
CSIR-CIMFR	Central Institute of Mining and Fuel Research, Dhanbad	www.cimfr.nic.in
CSIR-CLRI	Central Leather Research Institute, Chennai	www.clri.nic.in
CSIR-CMERI	Central Mechanical Engineering Research Institute, Durgapur	www.cmeri.res.in
CSIR-CRRI	Central Road Research Institute, New Delhi	www.crridom.gov.in
CSIR-CSIO	Central Scientific Instruments Organisation, Chandigarh	www.csio.res.in
CSIR-CSMCRI	Central Salt & Marine Chemicals Research Institute, Bhavnagar	www.csmcri.org
CSIR-HQ	CSIR Head Quarters and its other units	www.csir.res.in
CSIR-IGIB	Institute of Genomics and Integrative Biology, New Delhi	www.igib.res.in
CSIR-IHBT	Institute of Himalayan Bioresource Technology, Palampur	www.ihbt.res.in
CSIR-IICB	Indian Institute of Chemical Biology, Kolkata	www.iicb.res.in
CSIR-IICT	Indian Institute of Chemical Technology, Hyderabad	www.iictindia.org
CSIR-IIIM	Indian Institute of Integrative Medicine, Jammu	www.iiim.res.in
CSIR-IIP	Indian Institute of Petroleum, Dehradun	www.iip.res.in
CSIR-IITR	Indian Institute of Toxicology Research, Lucknow	www.iitrindia.org
CSIR-IMMT	Institute of Minerals and Materials Technology, Bhubaneswar	www.immt.res.in
CSIR-IMT	Institute of Microbial Technology, Chandigarh	www.imtech.res.in
CSIR-NAL	National Aerospace Laboratories, Bangalore	www.nal.res.in
CSIR-NBRI	National Botanical Research Institute, Lucknow	www.nbri.res.in
CSIR-NCL	National Chemical Laboratory, Pune	www.ncl-india.org
CSIR-NEERI	National Environmental Engineering Research Institute, Nagpur	www.neeri.res.in
CSIR-NEIST	North East Institute of Science & Technology, Jorhat	www.neist.res.in
CSIR-NGRI	National Geophysical Research Institute, Hyderabad	www.ngri.org.in
CSIR-NIIST	National Institute for Interdisciplinary Science and Technology, Thiruvananthapuram	www.niist.res.in
CSIR-NIO	National Institute of Oceanography, Goa	www.nio.org
CSIR-NISCAIR	National Institute of Science Communication and Information Research, New Delhi	www.niscair.res.in
CSIR-NISTADS	National Institute of Science, Technology and Development Studies, New Delhi	www.nistads.res.in
CSIR-NML	National Metallurgical Laboratory, Jamshedpur	www.nmlindia.org
CSIR-NPL	National Physical Laboratory, New Delhi	www.nplindia.org
CSIR-OSDD	Open Source Drug Discovery, New Delhi	www.osdd.net
CSIR-SERC	Structural Engineering Research Centre, Chennai	www.serc.res.in
CSIR-URDIP	Unit for Research & Development of Information Products, Pune	www.urdip.res.in

## USEFUL LINKS FOR FURTHER INFORMATION

Online applications and further information about studying at AcSIR

### IMP, Ph.D Programme in Science & Engineering

Visit us: <http://acsir.res.in>



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