



**Academy of Scientific & Innovative Research
CSIR-Central Electrochemical Research Institute**

**INTEGRATED M.Tech-Ph.D. PROGRAMME
(Chemical & Electrochemical Engineering)**

NOTIFICATION

CSIR-CECRI and AcSIR invite applications for the 2+3 years full -time **Integrated M.Tech-Ph.D** programme of Academy of Scientific and Innovative Research (AcSIR) in Chemical & Electrochemical Engineering for the academic year 2014-15.

Essential qualification:

B.Tech (Chemical & Electrochemical Engineering)/B.E./B.Tech (Chemical Engineering)/B.Tech (Chemical Technology)/B.Tech (Petrochemical Technology)

No.of Seats:

1. NET Engineering qualified candidates	..	4
2. GATE (JRF)	..	2
3. Project sponsored candidates	..	1
4. Industry sponsored candidates	..	1
Total	..	8

About the Programme

Integrated M.Tech-Ph.D programme (Post Graduate Research Programme in Engineering) offered by Academy of Scientific and Innovative Research (AcSIR) is a 2+3 years full-time programme which is segregated into two segments:

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

The programmes are designed to give in-depth exposure and hands-on R&D experience to the candidates in the area of Chemical, Electrochemical Science & Technology. The selected candidates will be trained on exciting live projects so that they emerge as research-ready scientists/engineers for taking up challenging positions.

The curriculum & syllabi for M.Tech (Chemical & Electrochemical Engineering) programme is given as a separate link to this notification.

What makes studying at CECRI unique?

CSIR-CECRI has a rich history marked by remarkable scientific contributions to our nation's technological and industrial upliftment. It is dedicated entirely to electrochemical science and technology in the Asia-Pacific region. Students will have a wide exposure in field of Materials Chemistry, energy storage/conversion, corrosion prevention and protection, waste water treatment etc.

The classes are handled by experienced Scientists and Engineers of CECRI. In addition, the students get opportunity to publish quality papers in peer-reviewed national and international journals and presentation of their research findings in National and International Conferences.

Future scope:

There is an ever existing demand for specialized electrochemical Engineers across the Nation and the transfer of CECRI's accumulated knowledge and experience in the field of Electrochemical Science & Technology to the young minds of India through this M.Tech programme will prove vital in catering the needs of our nation's electrochemical sector.

Who can Apply?

NET Engineering and GATE (JRF) qualified candidates are eligible to apply for Integrated M.Tech-Ph.D. programme. If selected, they will obtain stipend (JRF/SRF) from CSIR-EMR for completing the M.Tech and Ph.D. programmes.

Apart from the above categories, meritorious candidates from the Industries/ Industry Sponsored Projects may also be enrolled for the programme at AcSIR as Industry/ Project Sponsored Candidates. Such candidates shall contact the CSIR-CECRI and should receive *a-priori* approval from CECRI for the position. Also, such candidates are advised to receive a commitment from a faculty of CECRI agreeing to act as a Guide/Advisor.

The Employing organisation 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.

Medium of Instruction

The medium of instruction is English.

Eligibility Criteria

Engineering Graduates from B.Tech (Chemical & Electrochemical Engineering)/B.E./B.Tech (Chemical Engineering)/B.Tech (Chemical Technology)/B.Tech (Petrochemical Technology) with minimum 70% marks or 7.0 CGPA are eligible to apply. The age of the candidates should not be more than 28 years as on July 01, 2014 for admission to the programme. For reserved category, age relaxation as per Govt. of India rules will be followed. A valid GATE score will be considered as an added advantage.

Candidates whose final results are awaited, but who are otherwise eligible as per the screening criteria, can also apply. If selected, they will be provisionally admitted to the programme. Their continuation in the programme will be subject to securing required percentage/equivalent grade (depending on the cut -off marks for screening for the specific programme) and submission of marks-sheet of their final result by October 31, 2014.

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

Application Process:

For admission to Integrated M.Tech-Ph.D. programme, candidates need to fill the application ONLINE only by accessing <http://acsir.res.in>.

Selection Process:

All applications received through AcSIR will be screened at CSIR-CECRI by a committee and only those candidates who are found suitable to attend the interview/counseling at CSIR-CECRI. No TA will be paid by CECRI for attending the interview / counseling at Karaikudi. However candidates called for interview / counseling will be provided accommodation at CECRI Guest House on payment of nominal charges.

Fellowship

NET Engineering qualified and GATE (JRF) candidates will obtain stipend (JRF) as applicable, from CSIR-Extra Mural Research (CSIR-EMR) for completing M.Tech. However, they can continue with their fellowship for completing Ph.D.

Programme Fee Structure

The fee structure for M.Tech programme for the year 2014-15 will be as follows:

For Regular Candidates:

One-time Admission Fee (non-refundable):	Rs. 4,000/-
One-time Security Deposit (refundable):	Rs. 6,000/-
Semester Tuition Fee (non-refundable):	Rs. 24,000/-
Hostel Boarding and Lodging Charges:	As applicable

For Industry/Project Sponsored Candidates:

One-time Admission Fee (non-refundable):	Rs. 4,000/-
One-time Security Deposit (refundable):	Rs. 6,000/-
Semester Tuition Fee (non-refundable):	Rs. 48,000/-
Hostel Boarding and Lodging Charges:	As applicable

Total amount of Rs. 34,000/- for regular candidates and for sponsored candidates an amount of Rs. 58,000/- needs to be deposited at the time of admission. Subsequently, only the semester fee of Rs. 24,000/- (for Regular Candidates) or Rs. 48,000/- (for Sponsored Candidates) needs to be deposited, as the case may be, before the start of every semester.

Hostel boarding and lodging charges need to be paid separately as per the applicable norms and rules/guidelines in force at CSIR-CECRI.

Refund of Fees

Students desirous to withdraw from the programme after deposition of fees and security amount will need to apply in writing for refund. If such an application is made on or before August 13, 2014, (commencement of Academic session) refund of fees/other charges will be made after deducting the admission fee amount of Rs. 4,000/-.

Except security/caution deposit amount of Rs.6,000/-, no other charges will be refunded if the student leaves after joining the programme.

Evaluation Procedure and Grading Scheme

The Integrated M.Tech-Ph.D programme is made up of 2+3 years with continuous internal evaluation and a semester-end examination for all courses.

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 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 need to score CGPA = 8.0 or above.

Important Dates

Milestone	Date
Commencement of online application submission	April 25, 2014
Last date of online submission	May 22, 2014
Intimation to shortlisted Candidates (www.cecni.res.in)	June 05, 2014
Aptitude Test/interview	June 26-28, 2014
Declaration of results (www.cecni.res.in)	July 16, 2014
Enrollment	August 11-12, 2014
Commencement of Academic Session	August 13, 2014

Contact for further details:

Students' Academic Committee
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