



JNCASR

जवाहरलाल नेहरू उन्नत वैज्ञानिक अनुसंधान केंद्र (ज.ने.उ.वै.अ.के.)  
(विज्ञान एवं प्रौद्योगिकी विभाग, भारत सरकार के अधीन एक स्वायत्त संस्था तथा सम विश्वविद्यालय संस्था)  
**Jawaharlal Nehru Centre for Advanced Scientific Research**  
(An Autonomous Institution under Dept. of Science & Technology, Govt. of India and  
an Institution Deemed to be University)  
जक्कूरु परिसर, बेंगलूरु - 560 064, भारत / Jakkur Post, Bengaluru - 560 064, INDIA

## RESEARCH ADMISSIONS 2022

### Guidelines for Candidates:

Applications are invited from eligible applicants for admissions to the following programmes:

- (1) Research Programmes [(Ph.D. / MS(Engg.) / MS(Research)]
- (2) Master of Science (M.Sc) in Chemistry with the option to specialize in Materials Chemistry/Chemical Biology / Energy (Two-year programme)
- (3) Integrated Ph.D. Programmes

The gist of the admission operations is given in the following paragraphs.

Applicants possessing the educational qualifications including those in the final semester/year of their qualifying examinations but expect to complete all the requirements for award of the degree (like examinations, project dissertations, viva-voce etc.,) by 30.07.2022 and can furnish necessary certificates on or before 31 October 2022 are eligible to apply.

### 1. RESEARCH PROGRAMMES [Ph.D. / M.S(Engg.) / M.S(Research)]

#### 1.1 Eligibility

Candidates with an M Sc. or equivalent, B.E/B.Tech or equivalent or M.E/M. Tech or equivalent or B.VSc/M.VSc or MBBS/MD as applicable to individual Units as given in the table below are eligible to apply. They should have at least 55% in their highest University examination and should also have qualified in any one of the national exams: GATE/JEST/GPAT/UGC-JRF/CSIR-NET-JRF/ICMR-JRF/DBT-JRF/INSPIRE-JRF. The award certificate of such test should have the validity period for seeking admission to research programme as on 1st August 2022. Qualifying in the national exam is desirable for ME/M.Tech or equivalent degree holders.

Sl No.	Unit	Eligible Education qualifications	Qualifying in any one of the national entrance tests
1.	Chemistry and Physics of Materials Unit	1. Master's Degree in Science or equivalent in Electronics, Chemical/Mathematical/Physical/ Materials Science.	Valid GATE /JEST score / CSIR-JRF/UGC-JRF/DBT- JRF/ICMR-JRF / INSPIRE
		2. Bachelor's Degree in Engineering/Technology or equivalent in Electrical/Electronics/Metallurgy/Polymer/ Engineering Physics/Nano Technology/Chemical.	
		3. Master's Degree in Engineering/Technology or equivalent in Electrical/Electronics/Metallurgy/Polymer/Engineering Physics/Nano Technology/Chemical	Qualifying in one of the national exam mentioned above is desirable
2.	Engineering Mechanics Unit	1. Master's Degree in Science or equivalent in Mathematical/Physical Sciences.	Valid GATE /JEST score / CSIR-JRF /UGC- JRF/ INSPIRE
		2. Bachelor's Degree in Engineering/Technology or equivalent in Aerospace/Mechanical/Metallurgy/Polymer/ Engineering Physics/Chemical.	

		3. Master's Degree in Engineering/Technology or equivalent in Aerospace/Mechanical/Metallurgy/Polymer/Engineering Physics/Chemical/Atmospheric Science.	Qualifying in the national exam is desirable
3.	New Chemistry Unit	Master's Degree in Chemistry.	Valid GATE score / CSIR-JRF/UGC-JRF / INSPIRE
4.	Theoretical Sciences Unit	1. Master's Degree in Science or equivalent in Electronics, Chemical/Mathematical/Physical/Materials Sciences. 2. Bachelor's Degree in Engineering/Technology or equivalent in Aerospace/ Engineering Physics/ Electrical/Electronics/Metallurgy/Chemical/Mechanical Sciences.	Valid GATE /JEST score / CSIR-JRF/UGC- JRF/DBT- JRF/ICMR-JRF / INSPIRE
		3. Master's Degree in Engineering/Technology or equivalent in Aerospace / Engineering Physics/ Electrical/Electronics/Metallurgy/Chemical/Mechanical Sciences.	
5.	Evolutionary and Integrative Biology Unit	1. Master's Degree in Science or equivalent in Life Sciences / any area of Biological Sciences/Mathematics/Physics. 2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Biological Engineering, or any Biology related area. 3. MBBS /M.D. 4. B.VSc / M.VSc	Valid GATE /JEST score / CSIR-JRF/UGC- JRF/DBT- JRF/ICMR-JRF / ICAR AICE-JRF/INSPIRE
		Master's Degree in Engineering/Technology or equivalent in Biotechnology, Biological Engineering, or any Biology related area.	Qualifying in the national exam is desirable
6.	Neuroscience Unit	1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Biological/Life Sciences/Pharmacy. 2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area. 3. MBBS /M.D.	Valid GATE /JEST/GPAT score / CSIR-JRF/UGC- JRF/DBT-JRF/ICMR- JRF / INSPIRE
		Master's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area.	
7.	Molecular Biology and Genetics Unit	1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Chemical/ Biological/Life Sciences. 2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area. 3. MBBS /M.D.	Valid GATE /JEST/ score / CSIR-JRF/UGC- JRF/DBT- JRF/ICMR-JRF / INSPIRE
		Master's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area.	

## 1.2 Selection procedure

Candidates are short-listed for an interview based on their performance in the national entrance test and qualifying degree. The selection is based on the performance in the interview (in some units, an aptitude test/preliminary interview may precede the final interview).

*Note: Keeping in view the pandemic situation, interviews will be held online. If there's any change, it will be notified on the admissions website.*

## 2. MASTER OF SCIENCE (M.Sc) IN CHEMISTRY

### 2.1 Eligibility

a) Applicants possessing a minimum of 55% marks at the Bachelor's degree in any branch of Science with Chemistry as a major subject and who have qualified the Joint Admissions Test for Masters (JAM) 2022 are eligible to apply.

### 2.2 Selection procedure:

Shortlisted JAM candidates will be called for an interview directly. The final selection is based on the performance in the interview.

*Note: Keeping in view the pandemic situation, interviews will be held online. If there's any change, it will be notified on the admissions website.*

## 3. INTEGRATED Ph. D PROGRAMME

### 3.1 Eligibility

Disciplines	Qualifying degree
<i>Physical Science (Specialization in Materials)</i>  <i>Web link for related information is available at</i> <a href="http://IntPhDPhysicalSciences.pdf">IntPhDPhysicalSciences.pdf</a> <a href="http://incasr.ac.in">(incasr.ac.in)</a>	<ul style="list-style-type: none"><li>• Students with minimum of 55% marks at bachelor's degree in any branch of Science/Engineering with an aptitude for advanced physics education and materials research.</li><li>• Candidacy will be evaluated on past academic records and/or scores in national level exams</li></ul>
<i>Chemical Science</i>	<ul style="list-style-type: none"><li>• Students with minimum of 55% marks at bachelor's degree in any branch of Science with Chemistry as a major and mathematics as a subject at least up to PUC (10+2 level) and who have qualified the JAM 2022 are eligible to apply.</li></ul>
<i>Biological Science</i>	<ul style="list-style-type: none"><li>• Students with minimum of 55% marks in bachelor's or equivalent degree in Physical, Chemical or Biological Science (including Biotechnology, Pharmaceutical, Veterinary Sciences and Agricultural Sciences) or B.E/B. Tech degree or equivalent degree.</li><li>• Candidates who have qualified the JAM 2022 written test are encouraged to apply.</li></ul>

### 3.2 Selection procedure:

Shortlisting for interviews for selection to the Int. Ph.D Physical Sciences and Int. Ph.D Chemical Science Programme will be based on the Joint Admission test for Master's (JAM) score. The candidates applying for the Int. Ph.D Biological Science programme will be shortlisted based on online exam (Multiple Choice Questions). These shortlisted candidates will be invited to appear for interviews online. The final selection to the Int. Ph.D Program will be based on the performance in the interview.

*Note: Keeping in view the pandemic situation, interviews will be held online. If there's any change, it will be notified on the admissions website.*

## HOW TO APPLY

Applications for all the programmes mentioned above are available online. **(only online applications will be considered).**

## APPLICATION FEE

The application fee is Rs.500/- and is non-refundable. Any bank or payment gateway service charges must be borne by the applicant. Initiation of processing refund of multiple payments transactions due to payment gateway errors will be done only after the closing date of the application. For refund of multiple payment (Rs 1000/above), the request should be sent by email with relevant evidence of transactions to [admissions@jncasr.ac.in](mailto:admissions@jncasr.ac.in).

Options of online payment through net-banking, debit card/credit card etc. is available.

## IMPORTANT DATES

Website opens for on-line submission of applications	<b>05.03.2022</b>
Last date for submission of applications online (website closes at 23:59 hours on 31.03.2022)	<b>31.03.2022</b>

**Scholarships:** All the regular students [except Master of Science (M.Sc) in Chemistry] joining JNCASR are eligible for a scholarship from JNCASR/ CSIR / UGC/ ICMR / DBT /INSPIRE depending upon their mode of entry.

The applicants are advised to visit the website **<http://www.jncasr.ac.in/admission/degree-programmes>** for details regarding degree programs and the areas of research carried out in the Research Units.

Admission portal for online submission of applications can be accessed at the following link <https://www.jncasr.ac.in/admission/admissions>

**SC/ST/PwD/EWS/Minorities/Women candidates are encouraged to apply.**

**ACADEMIC COORDINATOR**