



**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)  
जक्कूर परिसर, बेंगलूरु - 560 064, भारत / Jakkur Post, Bengaluru - 560 064, INDIA

## ADMISSIONS 2021

### 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 (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 31.07.2021 and can furnish necessary certificates on or before 31 October 2021 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 50% in their highest University examination and should also have qualified in any one of the National exams: GATE/JEST/GPAT/UGC /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 2nd August 2021. ME/ M.Tech or equivalent degree holders are required to qualify in one of the national exams mentioned above, however exceptional candidates without these exams may also be considered.

| 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/Material Sciences.<br><br>2. Bachelor's Degree in Engineering/Technology or equivalent in Electrical/Electronics/Metallurgy/Polymer/Engineering Physics/Nano Technology/Chemical. | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR-JRF / INSPIRE |

|    |   |  |   |
|----|---|--|---|
|    |   | 3. Master's Degree in Engineering/Technology or equivalent in Electrical/Electronics/Metallurgy/Polymer/Engineering Physics/Nano Technology/Chemical   | Qualifying in the national exam is desirable  |
| 2. | Engineering Mechanics Unit                | 1. Master's Degree in Science or equivalent in Mathematical/Physical Sciences.<br>2. Bachelor's Degree in Engineering/Technology or equivalent in Aerospace/Mechanical/Metallurgy/Polymer/Engineering Physics/Chemical   | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR- JRF / INSPIRE      |
|    |   | 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                        | 1. Master's Degree in Science or equivalent in Chemistry, Chemical/ Physical /Biological/Material Sciences<br>2. Bachelor's Degree in Engineering/Technology or equivalent in Chemical Engineering, Physical/Biological / Materials Sciences   | Valid GATE /JEST/GPAT score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR- JRF / INSPIRE |
|    |   | 3. Master's Degree in Engineering/Technology or equivalent in Chemical Engineering, Physical/Biological / Materials Sciences<br>4. Master's Degree in Pharmacy   | Qualifying in the national exam is desirable  |
| 4. | Theoretical Sciences Unit                 | 1. Master's Degree in Science or equivalent in Electronics, Chemical/Mathematical/Physical/Material Sciences.<br>2. Bachelor's Degree in Engineering/Technology or equivalent in Aerospace/ Engineering Physics/ Electrical/Electronics/Metallurgy/Chemical/Mechanical Sciences.     | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for 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.   | Qualifying in the national exam is desirable  |
| 5. | Evolutionary and Integrative Biology Unit | 1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Physics, Mathematical/Biological/Life Sciences.<br>2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, Biological Engineering, or any Biology related area. | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR- JRF / INSPIRE      |

|    |                                     |  |  |
|----|-------------------------------------|--|--|
|    |                                     | 3. Master's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, Biological Engineering, or any Biology related area.<br><br>4. MBBS /M.D.<br><br>5. B.VSc / M.VSc   | Qualifying in the national exam is desirable   |
| 6. | Neuroscience Unit                   | 1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Biological/Life Sciences.<br><br>2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area.           | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR- JRF / INSPIRE |
|    |                                     | 3. Master's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area.<br><br>4. MBBS /M.D.   | Qualifying in the national exam is desirable.  |
| 7. | Molecular Biology and Genetics Unit | 1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Chemical/ Biological/Life Sciences.<br><br>2. Bachelor's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area. | Valid GATE /JEST score / CSIR-UGC NET for JRF/UGC-NET for JRF/DBT- JRF/ICMR- JRF / INSPIRE |
|    |                                     | 3. Master's Degree in Engineering/Technology or equivalent in Biotechnology, Bioinformatics, or any Biology related area.<br><br>4. MBBS /M.D.   | Qualifying in the national exam is desirable.  |

## 1.2 Selection procedure

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

Note: Keeping in view the pandemic situation, the selection procedure may be shifted online if necessary.

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

### 2.1 Eligibility

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

## 2.2 Selection procedure:

Shortlisted candidates based on fulfilling the eligibility criteria will have to appear for a written test at JNCASR. Based on the performance in the written test, candidates will be called for an interview. Shortlisted JAM candidates may be exempted from the written test and 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, the selection procedure may be shifted online if necessary.

## 3. INTEGRATED PH. D PROGRAMME

### 3.1 Eligibility

| Disciplines               | Qualifying degree   |
|---------------------------|---|
| <i>Materials 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 sound knowledge in the fundamentals of Physics, Chemistry and Mathematics.</li><li>• Candidates who have qualified the JAM 2021 written test (for Master's) are encouraged to apply</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).</li><li>• Candidates who have qualified the JAM 2021 written test (for Master's) are encouraged 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 2021 written test (for Master's) are encouraged to apply</li></ul> |

**3.2 Selection procedure:** Shortlisting will be through the Joint Admission test for Master's (JAM) and /or JNCASR's written test, followed by an interview for shortlisted candidates on the same day or the following day. The final selection will be based on the performance in the interview.

Note: Keeping in view the pandemic situation, the selection procedure may be shifted online if necessary.

### HOW TO APPLY

Applications for all the programmes mentioned above are available online. **(only online applications are 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.

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>05.03.2021</b> |
| Last date for submission of applications online<br>(website closes at 23:59 hours on 24.04.2020) | <b>19.04.2021</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> and website of the Unit of their interest to familiarize themselves with complete admission related matters, areas of research, etc.

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

**ADMINISTRATIVE OFFICER**