



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

RESEARCH ADMISSIONS 2023

Guidelines for Candidates:

Applications are invited from eligible applicants for admissions to the following degree 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) Master of Science (M.Sc.) in inter-disciplinary Biosciences
- (4) Integrated Ph.D. (Int. 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 31.07.2023 and can furnish necessary certificates on or before 31 October 2023 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/B.S (4 year) 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% marks 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 tests should have the validity period for seeking admission to research programme as on 1st August 2023. 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/4-year Bachelor of Science 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 exams mentioned above is desirable

2.	Engineering Mechanics Unit	1. Master's Degree in Science or equivalent in Mathematical/Physical Sciences. 2. Bachelor's Degree in Engineering/Technology/4-year Bachelor of Science or equivalent in Aerospace/ Mechanical /Metallurgy/Polymer/ Engineering Physics /Chemical.	Valid GATE /JEST score / CSIR-JRF/UGC-JRF/ INSPIRE
		3. Master's Degree in Engineering/Technology or equivalent in Aerospace/Mechanical/Metallurgy/Polymer/Engineering Physics/Chemical/Atmospheric Science.	Qualifying in one of the national exams mentioned above is desirable
3.	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/4-year Bachelor of Science 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 one of the national exams mentioned above is desirable
4.	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/4-year Bachelor of Science 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.	Qualifying in one of the national exams mentioned above is desirable
5.	New Chemistry Unit	1. Master's Degree in Chemistry/Physics. 2. Bachelor's Degree in Engineering/Technology/4-year Bachelor of Science (preferred with Chemistry as a major subject)	Valid GATE score / CSIR-JRF/UGC-JRF/ DBT-JRF/ICMR-JRF/INSPIRE
6.	Neuroscience Unit	1. Master's Degree in Science or equivalent in Bioinformatics, Biotechnology, Biological/Life Sciences/Pharmacy. 2. 4-year Bachelor of Science or equivalent in Biotechnology, Bioinformatics, or any Biology related area/Bachelor's Degree in Engineering or Technology (electrical or computer science branches) 3. MBBS /M.D. 4. Master's/4-year Bachelor's Degree in non-Biology area with demonstrated interest in Neuroscience can also apply	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.	Qualifying in one of the national exams mentioned above is desirable
7.	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/4-year Bachelor of Science 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/EngineeringPhysics/Electrical/Electronics/Metallurgy/Chemical/Mechanical Sciences.	Qualifying in one of the national exams mentioned above is desirable
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1.2 Selection procedure

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

Note: Interviews will be held only offline

2 MASTER OF SCIENCE (M.Sc.)

2.1 Master of Science (M.Sc.) in Chemistry

2.1.1 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) 2023 are eligible to apply.

2.1.2 Selection procedure:

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

2.2 Master of Science (M.Sc.) in inter-disciplinary Biosciences (with an option to specialize in Epigenetics and Diseases, Neurosciences, Human Disease Genetics, or Chemical Biology approach to understanding Disease Biology and Drug Discovery)

2.2.1 Eligibility

a) Applicants possessing a minimum of 55% marks at the Bachelor's degree in any branch of Biological Science with Chemistry as a significant subject and who have qualified for the Joint Admissions Test for Masters (JAM) 2023 and/or equivalent examination are eligible to apply.

2.2.2 Selection procedure:

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

Note: Interview will be held only offline.

3. INTEGRATED Ph. D. PROGRAMME

3.1 Eligibility

Disciplines	Qualifying degree and exams
<i>Physical Science (Specialization in Materials)</i> Web link for related information is available at https://www.jncasr.ac.in/sites/default/files/users/user277/Int.%20PhD_Physical%20Sciences.pdf	<ul style="list-style-type: none">• 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.• Candidacy will be evaluated on past academic records and/or scores in national level exams
<i>Chemical Science</i>	<ul style="list-style-type: none">• 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 2023 are eligible to apply.
<i>Biological Science</i>	<ul style="list-style-type: none">• 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.• Candidates who have qualified the JAM 2023 test are encouraged to apply.

3.2 Selection procedure

Shortlisting for interviews for selection to the Int. Ph.D Physical Science Programme will be based on academic records, performance in the national level exams, statement of purpose mentioned in the application form.

Shortlisting for interviews for selection to the Int. Ph.D Chemical Science Programme will be based on the Joint Admission test for Master's (JAM) 2023 score.

The applications for the Int. Ph.D Biological Science Programme will be screened based on overall academic performance for eligibility to attend an entrance exam. Successful candidates will be invited to appear for interviews shortly afterwards.

The final selection to the Int. Ph.D Degree Programme will be based on the performance in the interview.

Note: Interviews will be held only offline.

HOW TO APPLY

Applications for all the degree programmes mentioned above are available online. Only online applications will be considered.

APPLICATION FEE

The application fee is Rs.500/- and is non-refundable. The payment is to be made to the JNCASR bank account through NEFT. Service charges if any, must be borne by the applicant.

IMPORTANT DATES

Website opens for on-line submission of applications	15.03.2023
Last date for submission of applications online (website closes at 23:59 hours on 15.04.2023)	15.04.2023

Scholarships: All the regular students [except Master of Science (M.Sc.) in Chemistry and Master of Science (M.Sc.) in Inter-disciplinary Biosciences] joining JNCASR are eligible for a fellowship 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