

**NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS**

राष्ट्रीय जैवचिकित्सा जीनोमिक्स संस्थान



**(An Autonomous Institution of Department of Biotechnology, Government of India)**

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**INFORMATION FOR STUDENTS INTERESTED TO PURSUE DOCTORAL RESEARCH  
AT THE NATIONAL INSTITUTE OF BIOMEDICAL GENOMICS (NIBMG), KALYANI**

Applications are invited from suitable candidates to pursue doctoral research at NIBMG. The selected students are expected to work on human diseases with emphasis on gaining biological insights into disease mechanisms using clinical samples and appropriate experimental models, *in vitro*, *in vivo* and *in silico*. NIBMG is equipped with state-of-the-art technologies which include single-cell sequencing and bulk DNA sequencing NGS platforms, extensive computational and bioinformatics facility, genetic engineering including cutting-edge CRISPR-Cas Genome editing laboratories, FACS (cell sorter), low and high- resolution imaging facility, Multiplex Elisa/ALPHA-LISA, state-of-the-art zebrafish, proteomics and upcoming microbiome facilities. The broad areas of research on which students are expected to work are listed below:

- A. Gene Signature and Functional Genomics of Cancer
- B. Genetic Determinants of Infectious disease susceptibility and Pathogenesis
- C. Multi-omics Determinants of Complex disease
- D. Computational Biology and Statistical Genomics

There shall be reservation of seats for students from the SC, ST, OBC and PWD categories as per the orders of the Govt. of India. Certificates from relevant authorities are to be provided as proof before the interview. The minimum eligibility criteria for accepting students at NIBMG to pursue research leading to Ph.D. degree are:

**Category A:**

- Master's degree in any discipline of Biological Sciences (Genetics, Molecular Biology, Biochemistry, Biotechnology, Statistics, Bioinformatics, Computer Science, Zoology, Botany, Physiology, Biophysics or related disciplines).
- Candidates in General category must have secured at least 55% aggregate marks during their Master's degree. This will be relaxed for students belonging to the Reserved categories who possess a Master's degree.
- An applicant must have a valid Junior Research Fellowship from UGC, CSIR, ICMR, DBT (Category I only), NBHM, BINC, and a valid award letter of Research Fellowship at the time of interview. DST-INSPIRE students with a provisional certificate from DST are also eligible to apply. Candidates who have qualified for Rajiv Gandhi National Fellowship or any other fellowship for the reserved categories are encouraged to apply.

**Category B:**

- Candidates with a MBBS or B. Tech (Biotechnology) degree with at least 55% marks along with a valid Junior Research Fellowship from UGC, CSIR, ICMR, DBT (Category I only).
- Preference will be given to candidates with demonstrable research training in the form of summer training or short-term courses in established research laboratories in preparation for a research career in biomedical sciences.

Please apply online via web link <https://apply.nibmg.ac.in/> (no other form of application will be accepted). Please indicate online whether you belong to a reserved category or the general category. Online application will be accepted until **5 PM on 20<sup>th</sup> December, 2021**.

Please note that fulfilling the minimum essential criteria does not ensure that a candidate will be called for the Interview. Applications will be screened based on Research Interest and preference will be given to candidates whose research interest matches with the ongoing research in NIBMG. Short-listed candidates will be interviewed online to make the final selection. Interviews will be held in **January, 2022**.