

Notice for PhD Admission at Department of Mathematics and Statistics

Applications are invited for **admission in Autumn 2020** from motivated candidates to pursue research in the broad fields of **Pure Mathematics (Group A)** and **Statistics/Applied Mathematics (Group B)**. The minimum eligibility criteria for each of the subject areas under the two groups are as follows:

Group A

- **Commutative Algebra, Harmonic Analysis, Number Theory, Representation Theory and Spectral Graph Theory:** A Master's degree in Mathematics with a minimum of 55% marks or CGPA/CPI of 6.5 on a 10-point scale.

Group B

- **Bayesian Statistics:** A Master's degree in Statistics with a minimum of 55% marks or CGPA/CPI of 6.5 on a 10-point scale.
- **Computational Biology:** A Master's degree, with minimum 55% marks or CGPA/CPI of 6.5 on a 10-point scale, in any field of Applied Mathematics, Applied Statistics, Bio-technology, Computer Science, Physics, Electrical Engineering, Mathematics and Statistics.
- **Non-parametric Statistics & Functional Data Analysis:** A Master's degree in Mathematics or Statistics with a minimum of 55% marks or CGPA/CPI of 6.5 on a 10-point scale.

The profiles of the Faculty members of the department, in the aforementioned subject areas, can be found in the URL: <https://math.iiserkol.ac.in/>.

Candidates applying for **Harmonic Analysis** are expected to have a strong background in *Multi-variable Calculus, Measure Theory, Complex Analysis* and *Functional Analysis*.

Candidates applying for **Nonparametric Statistics & Functional data Analysis** are expected to have strong background in *Linear Algebra, Measure Theory* and *Stochastic Processes*.

Candidates having their own valid PhD fellowship (UGC/CSIR-NET JRF, NBHM, DBT-JRF, ICMR-JRF, INSPIRE or any other equivalent fellowship) are strongly encouraged to apply. Few Institute fellowships might be available for deserving candidates who do not have fellowship

provided that they have qualified any national level entrance exam such as GATE, NET-LS etc. (apart from satisfying minimal eligibility criteria) or are from other IISERs having a BS-MS degree with a CGPA score more than or equal to 8 on a 10 point scale.

Please take a note of the following points:

- **A candidate has to apply online at the portal <https://apply.iiserkol.ac.in/phd/>.**
- Fulfilling the minimum eligibility criteria does not ensure that a candidate will be called for the interview.
- A candidate must fill up the form carefully as additional short-listing criteria will be set based on academic records, experience and statement of purpose of the candidates as provided in the application form.
- **In the field "Scientific Interest" under the section Statement of Purpose in the application form, the candidate must mention the group (Group A or B as above) in which one is applying along with the research interest.**
- **A written test may precede the interview** for further short-listing and candidates will be informed about the syllabus, time and venue accordingly.
- The candidates will be allowed to appear at the interview only after proper verification of documents.
- In case of overnight stay, the candidates have to arrange the accommodation on their own.

Important Dates:

PhD application portal opens: 03.02.2020

Application portal closes: 02.04.2020

Publication of shortlist for Written test/Interview: 09.04.2020

Tentative Written test/Interview dates: May 19 - 20, 2020

Publication of PhD interview results: 28.05.2020

Preregistration portal opens: 29.05.2020

Preregistration deadline: 13.07.2020

PhD Registration: 29.07.2020

For any additional query email us at: dms.phd.application@iiserkol.ac.in