



NATIONAL INSTITUTE OF SCIENCE EDUCATION AND RESEARCH BHUBANESWAR

Advt.No:NISER/ACAD/Ph.D/2017-18(2)

Notice for Admission to Ph.D. Programme – 2018 (Winter Session)

Applications are invited from Indian citizens for admission to Ph.D. Programme scheduled to commence from 2nd January, 2018 in the following schools of basic sciences at NISER, Bhubaneswar:

- 1. School of Biological Sciences (SBS)**
- 2. School of Chemical Sciences (SCS)**
- 3. School of Physical Sciences (SPS)**
- 4. School of Mathematical Sciences (SMS)**
- 5. School of Humanities and Social Sciences (SHSS)**

Eligibility

1. Stream

Minimum Educational Qualifications

Biological Sciences#	60% in Masters or M.Tech in any branches of Biology, Life Sciences, Pharmaceutical Sciences, Agricultural Sciences, Veterinary Sciences, Computer Sciences, Bioinformatics and Biotechnology. Students with Masters degree in Physics, Chemistry and Mathematics having interest in pursuing a career in Biology are also encouraged to apply.
Chemical Sciences	60% in Masters in Chemistry or allied fields. Student with masters in any branches of Basic Sciences or M.Tech in Applied chemistry or Computer Sciences with interest in pursuing career in Chemistry
Physical Sciences	60% or equivalent GPA cumulatively till the last year/semester examination appeared in M.Sc majoring in Physics OR M.E./M.Tech in Applied Physics.
Mathematical Sciences##	60% in Masters in Mathematics or Statistics or Computer Science
Humanities and Social Sciences ###	60% in Masters in Social Sciences and allied disciplines

#Research areas in School of Biological Sciences:

- Cellular and molecular genetics of aging disorders
- Understanding the role of CEACAMs in gastric epithelial cancer
- Antibiotic resistance and virulence: Focus on membrane proteins and persistence phenomenon
- Flowering time control and light signaling in plants
- Study of cellular response upon addition of novel ligands
- Molecular genetics of gallbladder cancer
- Putative angiogenic regulators and tumorigenesis

- Organization and regulation of neural pathways controlling energy balance and reproduction
- Defects in translation initiation fidelity and analysis of its effects on cellular proteome by using genome wide polysome profiling
- Structure-and-function work on two component systems / transporters
- Structure-function of proteins, cell biology
- Development and homeostasis of complex cell and tissue architecture
- Organisation of cytoskeleton by molecular motors in extant eukaryotes: dictyostelium and tetrahymena
- Cell mediated immunity of inflammation, cancer and viral infection
- Structural biology of viral DNA packaging proteins

Student intake in these advertised areas will depend on the availability of seats with individual PIs.

##Research areas in School of Mathematical Sciences:

1. Probability
2. Statistics

For Mathematical Sciences: Candidates who have been called for interview of NBHM PhD Scholarship examination for the year 2017 are also eligible to apply. Further, UGC-CSIR NET qualified candidates should have passed the examination on or after 01st January 2016 to be eligible to apply. Candidates applying for statistics should have a M.Sc degree in statistics.

###PhD program in School of Humanities and Social Sciences (SHSS), NISER, includes areas of research under the disciplines of Economics, Psychology, Sociology and English.

2. Candidates should have qualified at least one of these national level examinations i.e. CSIR-UGCNET/GATE/GPAT/JEST/INSPIRE (Doctoral fellowship under AORC Scheme)/JGEEBILS or any other equivalent national level examination, valid for the current year in the relevant area of research.
3. UGC-CSIR or any other JRF qualified candidates have to avail the fellowship directly from that organization whereas, students selected for Ph.D. program based on GATE/GPAT/JEST or any other scores, are eligible for fellowship from NISER, Bhubaneswar, if selected.
4. The scholarship given by NISER is Rs. 25,000/- for first two years, which will subsequently be enhanced to Rs. 28,000/- for remaining three years, subject to the condition that he/she fulfills all the requirements of the Institute that will be stipulated from time to time.

Selection Procedure

- The selection committee of the respective schools will short-list the candidates among those who meet the minimum educational qualifications and satisfy additional criteria which each school may set as deemed necessary.
- The short-listed candidates will be called for an interview, supplemented by a written test, if necessary, for the admission.
- Based on the academic record and the performance of the candidates in the selection process, the selection committee of the school will recommend candidates to the Chairman, Academic Council for admission to the Ph.D. program.
- All candidates called for the Test / Interview will be paid to and fro single, second-sleeper class railway fare by the shortest route from their place of residence to the

Institute / venue of the Test and Interview. They have to produce evidence (railway ticket) in support of their claim.

How to Apply

- The application form has to be filled up online at <http://www.niser.ac.in> and candidates should follow stepwise instructions mentioned to complete the application submission process. At the time of application, along with this online form, the candidate should upload soft copy of the supporting documents of eligibility criteria.
- Candidates intending to apply for more than one school should fill up online application forms for each school and submit separate forms with appropriate supporting documents.
- Two sealed letters of reference in the prescribed format with signature of the referee on the envelope should be produced by the student at the time of interview. The copy of the reference letter is available online.
- NISER does not demand any entrance fee from the candidates who apply for Ph.D program.

Important dates:

- **Online application will be activated on – 07/10/2017**
- **Last date for filling up online application – 6th November, 2017**
- List of short-listed candidates will be uploaded on NISER website latest by **10th Nov, 2017.**
- Tentative dates for test/interview, at Jatni campus will be as follows:
 - School of Mathematical Sciences: 24th Nov, 2017**
 - School of Humanities and Social Sciences: 27th-28th November, 2017**
 - School of Physical Sciences: 1st -2nd December, 2017**
 - School of Chemical Sciences: 7th-8th December, 2017**
 - School of Biological Sciences: 19-20th Dec, 2017**
- Each school will send the call letters to the candidates separately.
- Kindly refer to the website for the date of announcement of the selected candidates.
- The registration will be done on **2nd Jan, 2018** (Tuesday).
- Accommodation in hostels for the days of interview/test can be provided subject to availability. Desirous candidates should send an email request to chiefwarden@niser.ac.in/vijay@niser.ac.in.
- For any further query, mail to cpsbs@niser.ac.in, cpsps@niser.ac.in, cpscsc@niser.ac.in, cpsms@niser.ac.in, cpsshss@niser.ac.in for Biology, Physics, Chemistry, Mathematics and Humanities & Social Sciences, respectively.
- **Applicants are encouraged to visit school web page for information on research activities.**

Address for communication and more details:

**Faculty-In Charge (Academic Affairs),
National Institute of Science Education and Research (NISER),**

Po-Bhimpur-Padanpur, Via-Jatni, Dist-Khurda-752050
Phone- 0674-2494013, Fax-0674-2494004
Email- dean_aa@niser.ac.in

Checklist for application submission:

During online submission, you will need to have the following ready with you for uploading;

- JPEG file of your passport size photo
- JPEG file of your valid signatures
- Birth Certificate/10th pass certificate in support of date of birth.
- Certificate in support of category claimed (SC/ST), only if applicable.
- Certificate and mark sheets in support of passing qualifying examination i.e Master's degree.
- Certificate(s)/document(s) in support of qualifying national level examination(s) viz. CSIR-UGC NET/GATE/GPAT/JEST/NBHM/INSPIRE (Doctoral fellowship under AORC Scheme)/ JGEEBILS or any other.