

GOVERNMENT OF INDIA  
NATIONAL BOARD FOR HIGHER MATHEMATICS  
DEPARTMENT OF ATOMIC ENERGY  
ANUSHAKTI BHAVAN, C.S.M. MARG, MUMBAI-400 001  
E-mail: psmsnbhm@dae.gov.in,msnbhm@dae.gov.in  
Website: www.nbhm.dae.gov.in  
SCHOLARSHIPS FOR PURSUING DOCTORAL PROGRAM  
(Ph.D) IN MATHEMATICS FOR THE ACADEMIC YEAR  
2018-19

The National Board for Higher Mathematics (NBHM) invites applications to appear for the joint screening test for (i) the grant of NBHM scholarships to students for pursuing research for a Ph.D. degree in mathematics and (ii) admissions to the Ph.D./Integrated Ph.D. programmes of certain institutions in India which include the **Harish-Chandra Research Institute (HRI)**, Allahabad, the **Indian Institute of Science Education and Research (IISER)**, Pune, the **Institute of Mathematical Sciences (IMSc)**, Chennai, and the **National Institute of Science Education and Research (NISER)**, Bhubaneswar.

### Who can apply?

- Applicants for the NBHM PhD scholarship must be mathematically motivated and hold a masters degree in (pure or applied) mathematics or statistics or must be **final year** students of these degree courses. They must have a good academic record (first class or equivalent grade in all years from Plus Two level to the present. Students having passed a B.Sc.(Honours) course with a second class may also apply, provided they have a masters degree or are in the final year of the same.
- Students holding a four-year B.S. (or equivalent) degree, or those in the **final year** of such a programme, may also apply, but they are eligible to receive the NBHM scholarship only if they secure admission to a recognized Ph.D. programme by August 2018.
- Students who wish to apply for the Ph.D./Integrated Ph.D. programmes of HRI, IISER, Pune, IMSc, or NISER **must** apply and appear for the written test. For this purpose, apart from the students mentioned earlier, students holding a B.Sc./B. Stat/B.S./B.Tech./B.E. degree, or those in the **final year** of such degree courses, with a consistently good academic record from Plus Two level as mentioned above may also apply. (For more details, visit [www.hri.res.in](http://www.hri.res.in), [www.iiserpune.ac.in](http://www.iiserpune.ac.in), [www.imsc.res.in](http://www.imsc.res.in) and [www.niser.ac.in](http://www.niser.ac.in).) Students for these doctoral programs **need not** apply separately to these institutions again.

### Eligibility

Eligibility to receive the NBHM Ph.D. scholarship is restricted to students who have completed their B.S./M.A./M.Sc. (or equivalent) degree and have secured admission to a recognized Ph.D. programme on or before **August 1, 2018**.

## **The NBHM Scholarship**

Successful candidates will receive a scholarship amount of Rs. 25,000/- (Rupees Twenty-five Thousand Only) per month for the first and second year and Rs. 28,000/- (Rupees Twenty-eight Thousand Only) per month for subsequent years, a contingency grant of Rs. 32,000/- (Rupees Thirty-two Thousand Only) per year and house rent allowance as per central government norms wherever applicable. The scholarships are normally for a period of **four** years, sanctioned for one year at a time and renewable at the end of each year, subject to satisfactory progress. The enhanced amount of scholarship may be offered after evaluation by the Board at the end of the second year. If deemed fit, the scholarship may be extended for a fifth year at the discretion of NBHM.

To avail of the NBHM scholarship, successful students must enroll themselves in a recognized Ph.D. degree programme. The scholarship will be paid through the institution they join. **Part-time research students cannot avail of the scholarship.**

## **Selection Procedure**

Candidates must appear for a written test which will feature questions based on topics normally covered in masters degree programmes in mathematics. The test will be of **150 minutes' duration** and will involve questions with short answers. Question papers of some earlier years will be available on the NBHM website (URL given at the top) and on the IMSc website ([www.imsc.res.in](http://www.imsc.res.in), under 'Quick Links'). Based on the performance in the written test, candidates will be short-listed for interview before final selection. The date of the written test is **Saturday, January 20, 2018.**

The written test will be conducted at the following centres, divided into five separate zones:

**Zone 1:** Chandigarh, Delhi, Srinagar

**Zone 2:** Allahabad, Indore, Jabalpur, Raipur

**Zone 3:** Goa, Mumbai, Pune, Vallabh Vidyanagar

**Zone 4:** Bhubaneswar, Guwahati, Kolkata, Ranchi, Shillong

**Zone 5:** Bangalore, Chennai, Cochin, Hyderabad

## **How to Apply**

Applications should be made on **plain paper** in the format given at the end of this advertisement and should be sent along with a **recent passport sized photograph** and a self-addressed envelope affixed with a Rs. 5/- postage stamp to the **address as given below for the appropriate zone** in which the candidate wishes to appear for the written test. The envelope containing the application should be superscribed **NBHM Ph.D. Scholarship.**

**Applications should not be sent to the NBHM office.** Names of two centres from the respective zone must be clearly indicated, giving the order of preference.

## Addresses of zonal coordinators for sending completed applications

### Zone 1

Prof. Gurmeet Kaur Bakshi, e-mail:gkbakshi@pu.ac.in  
Department of Mathematics,  
Punjab University,  
Hans Raj Gupta Hall,  
**Chandigarh - 160 014.**

### Zone 2

Prof. Kalyan Chakraborty, e-mail:kalyan@hri.res.in  
Harish-Chandra Research Institute,  
Chhatnag Road, Jhusi,  
**Allahabad - 211 019.**

### Zone 3

Prof. Siddhartha Bhattacharya, e-mail:siddhart@math.tifr.res.in  
School of Mathematics,  
Tata Institute of Fundamental Research,  
Homi Bhabha Road, Colaba,  
**Mumbai - 400 005.**

### Zone 4

Dr. Avishek Adhikari, e-mail:avishek.adhikari@gmail.com  
Department of Pure Mathematics,  
University of Calcutta,  
35, Ballygunge Circular Road,  
**Kolkata - 700 019.**

### Zone 5

Prof. S. Kesavan, e-mail:kesh@imsc.res.in  
c/o Institute of Mathematical Sciences,  
CIT Campus, Taramani,  
**Chennai - 600 113.**

### Deadline

The last date for receipt of completed applications is **Friday, December 8, 2017.**

A communication calling the applicant for the written test (hall ticket), together with the allotment of centre, will be sent so as to reach candidates by **Friday, January 5, 2018. In the event of an eligible applicant not receiving a communication regarding the test by that date, (s)he should contact the zonal coordinator to whom the application was sent to find out the status of the application and for appropriate remedial measures.**

A hall ticket sent by a zonal coordinator is normally necessary to appear for the test. In exceptional cases, eligible candidates may be admitted to the test **at the discretion of the centre-in-charge** of the appropriate centre.

For this purpose, the applicant must contact the centre-in-charge suggested by the appropriate zonal coordinator. Information about the test centres and persons-in-charge may be obtained from the zonal coordinator, NBHM website or by contacting the NBHM office (address at the top).

### Important Dates

- December 8, 2017      Last date for receiving applications.
- January 5, 2018      Applicant should contact zonal coordinator if hall ticket is not received by this date.
- January 15, 2018      Applicant should contact centre-in-charge suggested by zonal coordinator if hall ticket is not received by this date.
- January 20, 2018      Date of written test.

**PROFORMA**  
**National Board for Higher Mathematics**  
**Application for Ph.D. Scholarship in Mathematics**

Paste a  
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(1)NAME (In BLOCK LETTERS); (2) Date of Birth; (3) Nationality; (4) Gender (Male/Female); (5) Choice of two centres for test in order of preference from the list of centres in the zone to which application is sent; (6) Address for correspondence (IN BLOCK LETTERS) with PINCODE; (7) e-mail address; (8) Telephone: Landline (with STD code)/mobile; (9) Name and address of current institution of study/affiliation (if applicable); (10) Class in which you are currently studying and Course (if applicable); (11) Details of academic qualifications beginning with Matriculation, School Leaving Certificate or equivalent, in the following format:

Institution	University/ Board	Exam. passed/ appeared for	Year of passing	Division/ Class % marks	% marks in mathematics
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(12) Any other relevant information in support of your candidature including Awards or Scholarships (13) Whether you have applied for NBHM scholarships in the past. If 'yes', give year(s) of application, whether called for test/interview and the outcome.

Place:

Date:

Signature of the applicant