



**PROSPECTUS FOR Ph.D. PROGRAMME**  
**JANUARY- 2025 SESSION**  
**AIIMS, Guwahati**



**अखिल भारतीय आयुर्विज्ञान संस्थान, गुवाहाटी**  
**All India Institute of Medical Sciences, Guwahati**

Changsari, Guwahati – 781101

[www.aiimsguwahati.ac.in](http://www.aiimsguwahati.ac.in)

### Important Dates at a Glance

S No	PhD program procedural steps	Dates (Tentative)
1.	Date of Opening of Application & Uploading Prospectus on the web portal	21.12.2024
2.	Last date of application submission	11.01.2025
3.	Publication of status of applications	21.01.2025
4.	Release of Admit card for the entrance test to the eligible candidates via E-mail	30.01.2025
5.	Written examination (Stage I) at AIIMS Guwahati (MCQ based)	08.02.2025
6.	Declaration of result of written examination (Stage I)	15.02.2025
7.	Date of the interview (Stage II)	3 <sup>rd</sup> week of February 2025
8.	Declaration of Final result	4 <sup>th</sup> week of February 2025
9.	Enrolment and registration in the Ph.D. program	01.03.2025

**Note:** The dates shown in the above table are tentative. Any corrigendum or revision of the advertisement or any other information regarding this admission process will be posted on the official website of AIIMS, Guwahati only in due course. Candidates are advised to visit the website regularly for updated information in this regard.

## **I. Introduction**

The All India Institute of Medical Sciences – Guwahati (AIIMS-G) is an autonomous Institute of National Importance under the Ministry of Health & Family Welfare - Government of India. It was established under the Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) in May 2017. AIIMS-G started its academic activities from 12<sup>th</sup> January, 2021 from a temporary campus adjacent to Gauhati Medical College, Guwahati, Assam. AIIMS-G has started functioning from the permanent campus of the Institute at Changsari, Guwahati from March, 2022. The Institute was inaugurated by the Honourable Prime Minister of India on 14<sup>th</sup> April 2023.

The aim of the Institute is to develop into a state-of-the-art facility that caters to the three-pronged approach adopted by the AIIMS institutions, namely, Quality Medical Education, Evidence based Patient Care, and Cutting-edge Research. The Institute envisages to establish a center of excellence in medical education, training, health care and research imbued with scientific culture, compassion for the sick and commitment to serve the underserved.

AIIMS-G has started a broad-based fulltime research program leading to award of Doctor of Philosophy (Ph.D.) degree from July 2024 session with an idea that Research work may exemplify the development of new interventions, development of new biomarkers, testing of new scientific ideas or gaining insight into biological processes and health sciences. The Ph.D. degree would be awarded to a candidate, who will work full time as per the program regulations, and will submit a thesis on the basis of original research work done by him/her in any discipline-specific or multi-disciplinary area, contributing to the advancement of knowledge in Medical, Nursing, and Allied Health Sciences. The prospective candidates are also likely to innovate methods of application of existing knowledge in Medical, Nursing and allied Health Sciences. The basic objective of Ph.D. course is to enhance the scientific capacities of researchers and scientists in the field of Medical, Nursing, and Allied Health Sciences. The vision of the institute is to provide excellent opportunities for research work in the modern era of biomedical sciences with the developing state of art infrastructure and facilities.

## **2. Types of Ph.D. Seats**

1. Category A (Fellowship Available in Funded project)
2. Category C (candidates with own fellowship)

<b>2A. Summary of Examination Pattern for category A candidates</b>		
1.	Mode/Type of Examination	Offline Objective Type and Interview
2.	Duration of Examination	2.00 Hrs.
3.	Date of Examination (Stage I)	08.02.2025
4.	Date of Interview (Stage II)	3 <sup>rd</sup> week of February 2025
5.	Timing of Examination	Stage I (Written Exam): On scheduled date and time displayed on admit card Stage II (Interview): On scheduled date and time displayed on notice board/website
6.	Venue of Examination	AIIMS Guwahati
7.	Distribution of Questions for Stage I (Written Exam)	<b>Part 1 (30 marks):</b> MCQ based Aptitude test covering English (written and verbal skills), Biostatistics, Research Methodology, Cell Biology, Laboratory Technology, etc. <b>Part 2 (50 marks):</b> Subject related test comprising of MCQ questions of MD/MS/ MDS/MSc entrance level
8.	Cut-off for Stage I	Minimum 50% marks (40 marks) to be eligible for interview
9.	Type of questions for Stage II (Interview)	Clinical/practical/lab-based assessment Maximum Marks: 20
10.	Total Marks (Stage I & II)	80+20 =100
11.	Cut-off for Stage I and Stage II	Minimum 50% marks to be considered eligible in the merit list for admission

<b>2B. Summary of Examination Pattern for Category C candidates</b>		
1.	Mode/Type of Examination	Evaluation by Interview
2.	Date of Interview	3 <sup>rd</sup> week of February 2025
3.	Venue of Examination	AIIMS Guwahati
4.	Type of Examination	Interview (Clinical/practical/lab-based assessment) Maximum Marks:100)
5.	Total Marks	100
6.	Cut-off	50% marks to be considered eligible in the merit list for admission

### 3. Seat Details

There are two types of seats available:

3A. Category A (Fellowship Available in Funded project)

3B. Category C (candidates with own fellowship)

Merit list will be prepared for category A and category C candidate separately.

#### 3A. Category A (Fellowship Available in Funded project)

S. No.	Department	No. of Seats	Project Title	Qualifications required and specific eligibility criteria	Broad subject area of proposed research for Ph.D.
1	Anatomy	01	Exploring Altered Gene Expression Signatures in children with developmental epileptic encephalopathy using NanoString's nCounter Technology	Desirable qualification: Experience in Molecular Genetics	Anatomy, Genetics
2	*Biochemistry	01	Targeting triple negative breast cancer by engineering agents derived from <i>Piper longum</i>	i. Maximum Age limit: 35 years ii. Minimum Essential qualifications: Any one of the following: a. First class postgraduate degree, including the integrated PG degrees in Biochemistry/Biotechnology/Life Sciences or a related discipline with 1 year research experience after obtaining PG degree. b. Second class postgraduate degree, including the integrated PG degree in Biochemistry/Biotechnology/Life Sciences or a related discipline, with 3 years of research experience after obtaining PG degree. iii. Desirable qualifications: Working experience with mammalian cell culture, molecular and cell biology techniques, microvesicles and	Cancer biology, Molecular biology, Drug delivery, Non-coding RNAs

				exosomes, knowledge of cancer biology	
3	Community and Family Medicine	01	Feasibility of locally adapted, community delivered life skills training in indigenous adolescents: A multi-site study	Masters in Psychology/Clinical psychology with at least three months of work experience in a funded research project	Public health, community mental health
4	Microbiology	01	Viral Research and Diagnosis Lab Scheme	i. MSc/MTech in Biotechnology/Life Sciences ii. Previous experience of working in virology (molecular works like PCR) for a minimum of 1 year.	Molecular characterization of varicella virus causing reactivation (Herpes Zoster)
5	Pharmacology	01	PV Associate, ADR monitoring centre	-	Pharmacology
6	Psychiatry	01	ICMR multistate implementation research study on suicide risk reduction and improving mental wellbeing among school and college students	M. Phil (Clinical Psychology/Psychiatric Social Work) M.Sc./MA (Psychology, Clinical Psychology/ Applied Psychology/ Counselling Psychology)  Master in Medical Social Work  MSc (Psychiatric/ Mental Health Nursing)	Interdisciplinary (Psychiatry, Psychology/ Psychiatric social work/ Psychiatric nursing)

**Note:**

- 1) A candidate can submit application for one department only.
- 2) If selected for Ph.D. admission, candidate(s) will be allowed to apply for JRF/SRF/equivalent position (depending upon experience) after joining the Ph.D. program. However, fellowship/salary cannot be availed from two different sources.
- 3) The posts are being advertised keeping in view the broad subject area of proposed research and general eligibility of applicants. The Department concerned may have specific requirement on the eligibility of candidates which will be adopted for shortlisting of candidates.

\*The post is being advertised in anticipation that fund will be released from funding agency shortly. The start date of fellowship will be the joining of selected candidate to the fellowship program or the release of fund from funding agency whichever is later.

### 3 B. Category C (candidates with own fellowship)

The candidates with their own fellowships from recognized Government agencies such as CSIR, UGC, ICMR, DBT, INSPIRE, or similar government agencies will apply under this category. The certificate of such a candidate should be valid for the purpose of availing fellowship as on the date of joining the Ph.D. program, if selected.

S. No.	Department	No. of Seats	Broad subject area of proposed research for Ph.D.
1	Anaesthesiology	02	Perioperative care, Critical care, Artificial Intelligence, Machine learning and Deep learning in critical care and perioperative medicine, Biotechnology
2	Anatomy	01	Anatomy
3	Biochemistry	04	Diagnostics, Biomarkers, Genetics, Cancer metabolomics, Cancer genomics, Non-coding RNAs, Metabolic disorders, Clinical Biochemistry, Biophysics, Structural biology, Computational biology
4	Microbiology	01	Microbiology
5	Orthopaedics	01	Basic orthopaedics, Trauma, Cold orthopaedics (infections, metabolic diseases, tumors), Rehabilitation, Anthroplasty (Knee and Hip)
6	Paediatrics	01	
7	Pharmacology	02	Pharmacology, Phytopharmacology, Clinical Pharmacology, Pharmacogenomics
8	Psychiatry	02	Neuroscience, Psychiatry, Interdisciplinary (Psychology/ Psychiatric social work/ Psychiatric nursing/ Neurosciences)
9	Radiodiagnosis	01	-

#### Note:

- 1) A candidate can submit application for one department only.
- 2) The posts are being advertised keeping in view the broad subject area of proposed research and general eligibility of applicants. The Department concerned may have specific requirement on the eligibility of candidates which will be adopted for shortlisting of applications.

### 4. Submission of Application

The application for admission to the PhD program will be made available on AIIMS, Guwahati official website i.e. [www.aiimguwahati.ac.in](http://www.aiimguwahati.ac.in). The link for submission of online applications along with other relevant information will be activated on the date of notification.

Any Amendment/Rectification/Change/Editing in the application is NOT allowed after final submission of application. Applicants may note that any correspondence will NOT be entertained in this regard. Inadequately filled / incomplete applications will be summarily rejected.

#### Application Fees:

At the time of submission of application for the entrance examination of the Ph.D. program

- i. **General/OBC Category:** Rs.1500/- + Transaction Charges as applicable
- ii. **SC/ST/EWS Category:** Rs.1200/- + Transaction Charges as applicable
- iii. **PWBD Candidates are exempted from any Fee**



The fee once remitted will not be refunded under any circumstances

## 5. General Eligibility

A candidate seeking admission to the program of study leading to the award of Ph.D. degree must possess at least one of the following qualifications:

**5.1. Medical qualification:** MBBS/BDS with minimum 55% aggregate marks or MD/MS/MDS/DM/MCh in the subject concerned or equivalent Diplomate of National Board of Examination degree. Candidates who have obtained any of these degrees from medical colleges which are not recognized or considered equivalent by the Medical Council of India/Dental Council of India/National Medical Commission shall not be eligible to apply.

**5.2. AYUSH qualification:** Candidates holding Master's degree in any branch of AYUSH (Ayurveda, Yoga and Naturopathy, Unani, Siddha, Homeopathy) recognized by Central Council of Indian Medicine (CCIM) are also eligible to be considered for admission to the PhD program.

**5.3. Non-Medical qualification:** For nonmedical candidates, eligibility shall be Master's Degree awarded by UGC approved Indian Universities or equivalent in subjects pertaining to life sciences such as Anatomy, Physiology, Biochemistry, Biophysics, Human Biology, Molecular Biology, Microbiology, Biotechnology, Immunology, Botany, Zoology, Genetics, Molecular and Human Genetics, Human Genomics, Forensic Science, Cell Biology, Pharmacology, Pharmacy, Laboratory Technology, Speech and Hearing, and allied subjects. Candidates having BTech (Biotechnology) and MTech (Biotechnology) degree will also be eligible. For non-life science subjects, the eligibility shall be M.Sc. (Psychology/Clinical Psychology), M.A. (Psychology/Clinical Psychology), or M.Phil. (Clinical Psychology). Candidates holding master's degree in Yoga, Radiography, Radiotherapy, any branch of Engineering, Applied Psychology, and Counselling Psychology will also be eligible. Non-medical candidates should have at least 55% marks in the last eligibility examination qualified. Candidates possessing Masters Degree through distant learning course shall not be eligible.

## 6. Duration of Course

1. The duration of the course shall be the time period from registration to submission of thesis. The minimum period of registration in respect of all the candidates who are registered for Ph.D. shall be three years. The maximum period of registration shall not exceed five years. Extension beyond the period of 5 years can be given for a maximum period of 6 months on the recommendation of Doctoral Committee and final approval by Executive Director. Further extension beyond 5 years & 6 months can also be given by the Executive Director for a maximum period of 6 months in highly exceptional circumstances (like medical exigencies, natural calamities etc), subject to subsequent approval of the Academic Committee and such extension may not be given retrospectively. If thesis is not submitted within these timelines, the registration of the candidate may be summarily cancelled.

2. The guide of Ph.D. student shall give clear reason for the delay to the Executive Director.

3. In case of extension beyond 5½ years without justifiable reasons and circumstances as mentioned above, the Ph.D. registration of the candidate may be cancelled.

4. Failure to submit thesis within stipulated time period of maximum 5 years with extension after approval upto 5½ years (6 years in exceptional circumstances by prior approval of Executive Director) may lead to cancellation of Ph.D. registration of the candidate.

## 7. Method of Selection

Selection for Ph.D. registration will be through a two-stage performance evaluation as described below. A candidate can submit application for one department only. Candidates applying under category 'A' will have to appear in both stages of examination. However, the candidates applying under category 'C' will be exempted from stage 1 of examination; the merit list of such candidates will be prepared based on their performance in stage 2 (interview).

**6.1 Stage 1 (written examination, 80 marks):** Stage 1 will comprise of a MCQ based written examination of 2 hours duration which will be divided into 2 parts:

**Part 1 (30 marks):** MCQ based Aptitude test covering English (written and verbal skills), Biostatistics, Research Methodology, Cell Biology, Laboratory Technology, etc.

**Part 2 (50 marks):** Subject related test comprising of MCQ questions of MD/MS/MDS/MSc entrance level. The questions under this part will be specific for a particular subject and the department.

i. The marking scheme for stage 1 examination will be as follows:

- a. Each correct answer will be awarded one mark.
- b. More than one answers will be treated as a wrong answer and awarded zero mark.
- c. Zero mark will be given to question(s) not answered/unattempt.
- d. Overlapping answer/marking extending to another answer will also be awarded zero mark.
- e. There will not be any negative marking.

ii. The candidates who secure  $\geq 50\%$  in stage I (40 marks) will be eligible for stage II (Interview). **However, the number of candidates called for stage II (interview) shall not exceed three times the number of seats advertised.**

**6.2 Stage 2 (Interview):** Candidates will undergo a departmental viva/assessment for a maximum of 20 marks (category A). For candidates appearing under category C, the interview will be comprised of 100 marks.

### **6.3 Preparation of final list of selected candidates and counselling:**

- i. The sum total of marks awarded in stages 1, and 2 will be used to determine the final merit list of candidates (category A). A minimum of 50% marks in Stages 1, and 2 combined shall be eligible for admission (category A). For candidates appearing under category C, merit list will be prepared based on the performance in stage 2. A minimum of 50% marks in Stage 2 shall be eligible for admission (category C)
- ii. Candidates who fail to attend any of the stages of examinations as mentioned above will not be eligible for admission.
- iii. After entrance examination result is declared, the selection letters will be issued to the selected candidates.
- iv. The selected candidates will produce originals of certificates along with one set of xerox copy at the time of counselling.

## **7. Leaves and other Rules**

1. Ph.D. students are entitled for 30 days leave every year and leaves of multiple years cannot be clubbed together. If leave availed exceed 30 days within a year, then the period beyond 30 days is treated as Extra Ordinary Leave (EOL) and the minimum registration will be extended for the same duration as EOL. However, EOL cannot be more than 3 months in the entire registration period of 5 years. Any such period of leave beyond 3 months shall lead to the registration being cancelled.

2. Maternity and paternity leaves and other such statutory leaves shall be permitted as per existing rules but shall result in extension of registration period.

3. In case the Guide recommends a candidate for specific training or project related work outside AIIMS-G (within India or abroad), the leaves shall be treated as on duty/Study leave. This study leave shall not be more than 6 months in the entire registration period. The proof of acceptance of the candidate for such training/work outside the Institute should be submitted and on return, the report of such training/work done shall be required to be submitted to the Dean, by the candidate through the guide and HoD.

## 8. Course Fees:

- i. Each candidate selected for admission will have to pay the following fees during the course duration:

Sl. No.	Head	Fees (in Rs)	Duration
1	Registration Fee	25/-	3 Years
2	Tuition fee	720/-	3 Years
3	Laboratory fee	120/-	3 Years
4	Pot fund	720/-	3 Years
5	Hostel rent	1,080/-	3 Years
6	Electricity	240/-	3 Years
7	Gymkhana fee	120/-	3 Years
8	Caution money	100/-	3 Years
9	Hostel security	1,000/- (Refundable)	
<b>Total (Rs)</b>		<b>4,125/-</b>	

- ii. The above is the current fee structure and is subject to periodic revision.

**iii. All fees are payable at the time of admission. The fee shall be valid for a period of 3 years. In case the candidate is unable to complete his/her Ph.D. work in three years, the same amount shall have to be deposited for another period of 3 years.**

- iv. Fees and other charges including hostel rent once paid shall not be refunded in any case and no correspondence will be entertained in this connection. However, the caution money and hostel security will be refunded to those candidates who do not join the course. The caution money must be claimed within one year after completion of the course failing which it will be forfeited.

## 9. Hostel Accommodation

As per availability and rules of the Institute.

## 10. DOCUMENTS TO BE SUBMITTED WITH APPLICATION FORM (SELF-ATTESTED COPIES)

- i. Marksheet and certificate of 10<sup>th</sup> class.
- ii. Marksheet and certificate of 12<sup>th</sup> class.
- iii. Marksheet and passing certificates of graduation course.
- iv. Marksheet and passing certificates of postgraduation course.
- v. Marksheet and certificate of any other degree.
- vi. Proof for fellowship award (for category C).
- vii. Certificates in proof of research experience, if any.
- viii. 1<sup>st</sup> page of Research Papers, if any (maximum 5).
- ix. Self-attested copy of Govt issued identity card (Adhaar/PAN/Voter ID/Passport)
- x. Category certificate by defined govt. authorities (if applicable)
- xi. Disability certificate by govt. medical authority (if applicable)

## 11. Queries:

Any queries related to PhD admission may be addressed to [phd-admission@aiimsguwahati.ac.in](mailto:phd-admission@aiimsguwahati.ac.in)