



राष्ट्रीय उन्नत विनिर्माण प्रौद्योगिकी संस्थान
समविश्वविद्यालय (विशिष्ट श्रेणी)
हटिया, राँची - 834 003 (झारखण्ड)
NATIONAL INSTITUTE OF ADVANCED MANUFACTURING TECHNOLOGY
Deemed to be University (Distinct Category)
Hatia, Ranchi – 834 003 (Jharkhand)

Admission to Full Time Ph.D. and Part Time Ph.D. Programme Academic Year - 2026-27

No. NIAMT/Acad./Ph.D./014/2026-27

Date: 03-06-2026

Categories of Ph.D. research scholars

- Regular Candidates with Institute Fellowship -Full Time
- Candidates with Individual Fellowship (CSIR–NET JRF/UGC–NET JRF/ICMR/DST-INSPIRE, etc.)-Full Time
- Candidates from Sponsored Research Project-Full Time
- Sponsored Candidates (Industries and other organizations e.g. academic, research etc.)-Full Time
- Candidates without Institute Fellowship (Self-Sponsored)-Full Time
- Part Time

Eligibility

Ph.D. in Engineering/ Technology

- i. An applicant must have a post graduate degree in the relevant subject with a minimum of 55% marks or an equivalent CGPA
OR
- ii. An applicant must have an undergraduate degree with a minimum of 75% marks or an equivalent CGPA.
- iii. A relaxation of 5% of marks shall be allowed for the candidates belonging SC/ST/OBC (non-creamy layer)/Differently Abled (PwD), Economically Weaker Section (EWS) as per Central Government rules. An applicant must submit a recent category certificate to avail of this benefit.

Ph.D. in Science and Humanities

- i. An applicant must have a post graduate degree in the relevant subject with a minimum of 55% marks or an equivalent CGPA.
- ii. A relaxation of 5% of marks shall be allowed for the candidates belonging to SC/ST/OBC (non-creamy layer)/Differently Abled, Economically Weaker Section (EWS) as per Central Government rules. An applicant must submit a recent category certificate to avail of this benefit.

Foreign students:

Equivalent qualification from a foreign educational institution accredited by an assessment and accreditation agency (Association of Indian Universities) which is approved, recognized or authorized by an authority, established or incorporated under a law in its home country or any other statutory authority in that country to assess, accredit or assure quality and standards of the educational institution.

Fellowship

Doctor of Philosophy (Ph.D.): The Ph.D. institute fellowship/emoluments will be awarded as per extant guidelines of MoE, Govt. of India.

For individual fellowship and sponsored research projects, the fellowship will be as per the prevailing G.O.I rules.

Research Specializations

Sl. No.	Department	Qualifications	Area of Research/Specializations
1.	Foundry and Forge Technology	Foundry and Forge Technology, Mechanical Engineering, Metallurgical & Materials Engineering, Production and Industrial Engineering, Manufacturing Engineering, Materials Science and Engineering and allied disciplines.	Foundry: Ferrous & Non-Ferrous Casting, Solidification, Design, Modelling and Simulation, Smart Foundry. Forging: Ferrous & Non-Ferrous Forging, Deformation, Design, Modelling and Simulation, Powder Forging. Industrial Engineering: Supply Chain management, Operation Research, Reverse Engineering. Manufacturing: Welding, Machining Processes, Additive Manufacturing, MEMS. Heat Treatment and Thermal Energy Optimization, IoT and Application of AI and ML, Manufacturing Process Optimization.
2.	Mechanical Engineering	Mechanical Engineering, Production Engineering, Manufacturing Engineering, Industrial Engineering, Materials Science and Engineering, Surface Science & Engineering, and allied disciplines.	Composites, including bio - composites and laminated composite structures - Computational geometry - Conventional and non-conventional machining - Coordinate metrology - Fracture mechanics of adhesive bonded joints - Materials characterization - Reverse engineering - Static and dynamic analysis - Surface metrology - Surface modification techniques - Vibration and control.
3.	Materials and Metallurgical Engineering	Materials Engineering, Metallurgical Engineering, Industrial Metallurgy, Nano Technology, Foundry-Forge Technology, Materials Science and Engineering, Welding Technology, Materials Technology, Process Metallurgy, Surface Science & Engineering (with B.Tech. in Metallurgy and Materials Engineering), Mechanical Engineering, Manufacturing Engineering or its equivalent. M.Sc. in Physics/Chemistry with ME/M.Tech.	Physical Metallurgy, Extractive Metallurgy, Corrosion Engineering, Powder Metallurgy, Advanced Materials, Mechanical Metallurgy, Solidification.

4.	Applied Sciences & Humanities	i) Physics ii) Chemistry iii) Mathematics	i) Physics: Experimental condensed matter physics, Solid state physics ii) Chemistry: Electrochemistry, Polymer, heterogeneous catalyst. iii) Mathematics: Cryptography, Image Processing, Algebraic graph theory, spectral graph theory, Numerical analysis, Mathematical analysis of population balance equation, integral-differential equations.
5.	Environmental Engineering	Environmental Engg., Civil Engg., Chemical Engg., Mechanical Engg., Biotechnology, Metallurgical Engg., Mining Engg., Mechanical Engg., Agricultural Engg., and any other relevant branch of Engineering. Chemistry, Physics, Geology, Environmental Sciences, Biotechnology, and any other relevant branch of sciences.	Air pollution and control, Water & Wastewater treatment, EIA and Solid Waste Management, Utilization of Industrial Waste, Resources recovery from Waste, and Corrosion.
6.	Electronics and Computer Engineering	1. Computer Science & Engineering: Computer Science & Engineering/ Information Technology/ Computer Application/ Software Engineering/ Electronics Engineering/ Electronics and Communication Engineering/ Electrical Engineering/ Electrical & Electronics Engineering	1. Computer Science & Engineering: i) Data Science, Artificial Intelligence, and Machine Learning. ii) Information Security and Blockchain Technology iii) Cloud Computing, Edge Computing and Federated Learning iv) Natural Language Processing and Information Retrieval
		2. Electronics & Electrical Engineering: Electronics/ Electronics & Communication/ Electronics & Telecommunication/ Electronics & Instrumentation/ Instrumentation/ Instrumentation & Control/ Electrical Engineering/ Computer Science Engineering/ Information Technology or related field.	2. Electronics & Electrical Engineering: i) Embedded Systems ii) Internet of things iii) Power Systems iv) Smart Grid & Electrical Vehicle
		3. Electronics & Automation: Electronics/ Electronics & Communication/ Electronics & Telecommunication/ Electronics & Instrumentation/ Instrumentation/ Instrumentation & Control/ Electronics & Electrical Engineering/ Mechanical Engineering/ Production/ Manufacturing/ Industrial Production/ CAD/ CAM / Machine Design or related field.	3. Electronics & Automation: i) Computer Integrated Manufacturing ii) Digital Manufacturing iii) Robotics & Automation iv) Smart Energy Management

		4. Interdisciplinary Research: Electronics/ Electronics & Communication/ Electronics & Tele-communication Computer Science & Engineering/ Computer Application/ Software Engineering/ Electronics & Instrumentation/ Instrumentation/ Instrumentation & Control/ Electronics & Electrical Engineering/ Mechanical Engineering/ Production/ Manufacturing/ Industrial Production/ CAD/ CAM / Machine Design or related field.	4. Interdisciplinary Research Opportunities: Our PhD program encourages crossdisciplinarity research that bridges computer engineering with domains like – Mechanical engineering, Biomedical and Electronics Engineering. PhD candidates can work on projects that intersect areas such as Cyber-Physical Systems, Sustainable Computing, Brain Computer Interface (BCI), and Healthcare Technologies also.
--	--	--	---

NOTE: To avail Institute fellowship/emoluments, a valid GATE score/NET qualification is mandatory for candidates not possessing M.E./M.Tech degree. Mathematics is compulsory at UG level except humanities.

Department wise seat for the institute fellowship:

Name of the Department	Seats
Foundry and Forge Technology	3
Mechanical Engineering	3
Materials and Metallurgical Engineering	3
Applied Sciences and Humanities	4
Environmental Engineering	
Electronics and Computer Engineering	3
	16

Application Procedure

1. A non-refundable application processing fee of Rs. 500/- (for General/OBC/EWS) and Rs. 250/- (for SC/ST/PwD) is to be paid online to **NIAMT IRG FUND ACCOUNT, Account No. 2730101006939**, payable at **Canara Bank, IFSC Code: CNRB0002730, NIFTT Campus, Hatia, Ranchi, Jharkhand – 834003**.

2. How to Apply

a. The application form and information brochure can be downloaded from the Institute's website (www.niamt.ac.in).

b. The filled application form along with the self attested copy of certificate in support of educational qualification (as per the annexure), category of reservation (issued by the competent authority in the standard format of Govt./State Govt./UTs) and processing fee receipt should be **submitted by hand or sent by post** to the **Assistant Registrar (Academic), Lecture Hall Complex, Hatia, Ranchi, Jharkhand- 834003**. The envelope must be superscribed as 'Application for Ph.D. admission 2026'.

c. Application form, all the certificates, and processing fee receipt (self attested) must also be submitted (PDF) through email: admissionsphd@niamt.ac.in, Subject: 'Application for PhD admission 2026'.

Selection Process and reservation

- Selection is based on written test and interview.
- The candidates must appear for the written test and interview to NIAMT, Ranchi. No TA/DA is admissible.
- The candidates will have to produce all the relevant documents in support of their eligibility for the programme and claim of relaxation within 60 days from the date of admission, failing which his/her admission will be cancelled.
- The Institute will not be responsible for any postal delays/loss.
- The Institute reserves the right to reject any application without assigning any reason therein.
- Reservation for admission is as per Govt. of India rules.
- Final admission is subject to medical fitness.
- For all updates, kindly visit the Institute website (www.niamt.ac.in) regularly.

Note: The results of the written test and interview and selection list will be published on the Institute website only. No individual communication will be sent.

Important dates

(a) Downloading of PhD application form	: 03-06-2026
(b) Last date for receipt of completed application form	: 17-07-2026
(c) Date of Written Test/interview	: 27-07-2026
(d) Result on website	: 30-07-2026
(e) Date of Admission	: 03-08-2026
(f) Last date of Admission	: 14-08-2026

Contact

Email : academic@niamt.ac.in
Academic Section : 0651-2912208/ 8105476009/ 9818878551/ 8709275628

Fee structure can be accessed through:

<https://niamt.ac.in/UserView/UserView.aspx?TypeID=1387>