



राष्ट्रीय प्रौद्योगिकी संस्थान मेघालय
NATIONAL INSTITUTE OF TECHNOLOGY MEGHALAYA
Bijni Complex, Laitumkhrach, Shillong-793003

Ph. 0364-2501294, FAX 0364-2501113

ADVERTISEMENT FOR SUMMER INTERNSHIP-2018
Dated: March 26, 2018

National Institute of Technology Meghalaya is offering **Summer Internship** programme for the session **May-July, 2018**. The main objective of this programme is to encourage the bright and well-motivated students of different institutions to pursue an innovative research and development project work under the guidance of faculty members of NIT Meghalaya. Therefore, applications are invited from various Institutions across the country for this programme. The internship is available in the following departments: Electronics & Communication Engineering (EC), Computer Science & Engineering (CS), Civil Engineering (CE), Mechanical Engineering (ME), Electrical Engineering (EE), Physics (PH), Chemistry (CY), and Mathematics (MA).

List of Projects for Summer Internship 2018:

SL. NO.	PROJECT CODE	PROJECT SUPERVISOR	PROJECT TITLE
Electronics & Communication Engineering (EC) Department			
1	NITM/SI2018/EC/01	Dr. P. Rangababu	Development of IOT based patient monitoring system
2	NITM/SI2018/EC/02	Dr. P. Rangababu	Development of efficient algorithm for motion compensation for HEVC
3	NITM/SI2018/EC/03	Dr. Pradeep Kr. Rathore	Design and development of low cost polymer based piezoresistive pressure sensor
4	NITM/SI2018/EC/04	Dr. Pradeep Kr. Rathore	Design and development of low cost polymer based cantilever for very low mass sensing applications
5	NITM/SI2018/EC/05	Dr. Vinay Kumar	Approximate VLSI Circuits
6	NITM/SI2018/EC/06	Dr. Vinay Kumar	Hybrid CMOS Logic Style
7	NITM/SI2018/EC/07	Dr. Ch V Rama Rao	Improving the performance of blind source separation using direction arrivals
8	NITM/SI2018/EC/08	Dr. Ch V Rama Rao	Speech analysis using deep neural networks
Computer Science & Engineering (CS) Department			
9	NITM/SI2018/CS/01	Dr. Bunil Kumar Balabantaray	Path Planning of Mobile Robot in unstructured environment
10	NITM/SI2018/CS/02	Dr. Bunil Kumar Balabantaray	Design, analysis, and implementation of restoration algorithms for medical images
11	NITM/SI2018/CS/03	Dr. Yogita	Data Mining for Medical Databases
12	NITM/SI2018/CS/04	Dr. Yogita	Big Data Analytics
13	NITM/SI2018/CS/05	Dr. Vipin Pal	Energy Efficiency in Wireless Sensor Networks
14	NITM/SI2018/CS/06	Dr. Vipin Pal	Fuzzy system for Wireless Sensor Networks
15	NITM/SI2018/CS/07	Dr. Diptendu Singha Roy	Context Awareness in Ubiquitous Computing
16	NITM/SI2018/CS/08	Dr. Diptendu Singha Roy	Methods and Tools for Real-Time Big-Data Analytics
17	NITM/SI2018/CS/09	Dr. Rajarshi Ray	Equivalence Checking of Program Transformations



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Civil Engineering (CE) Department			
18	NITM/SI2018/CE/01	Dr. C. Marthong	Bamboo reinforced concrete structures
19	NITM/SI2018/CE/02	Dr. C. Marthong	Performance of Masonry Wall made of hollow concrete blocks
20	NITM/SI2018/CE/03	Dr. Ratan Sarmah	Mathematical modeling of Groundwater system
Mechanical Engineering (ME) Department			
21	NITM/SI2018/ME/01	Dr. Tanmoy Bose	Shear behavior of delaminated fiber metal laminates
22	NITM/SI2018/ME/02	Dr. Tanmoy Bose	Wave propagation in delaminated fiber metal laminate
23	NITM/SI2018/ME/03	Dr. K. Debnath	Experimental Investigation on Micro-machining of Advanced Materials
24	NITM/SI2018/ME/04	Dr. K. Debnath	Experimental Investigation on Advanced Machining of Fiber Reinforced Composite Materials
25	NITM/SI2018/ME/05	Dr. Bikash K Sarkar	Leakage flow analysis through spool valve
26	NITM/SI2018/ME/06	Dr. Bikash K Sarkar	Simulation of robotics system and control
Electrical Engineering (EE) Department			
27	NITM/SI2018/EE/01	Dr. A. Banerjee	Permanent Motor Drives in Renewable Energy Integration
28	NITM/SI2018/EE/02	Dr. S. Das	Power Transients in Long Transmission Line
29	NITM/SI2018/EE/03	Dr. P.P. Singh	Control of Non-linear Dynamics
Physics (PH) Department			
30	NITM/SI2018/PH/01	Dr. Arpita Nath	Trapped Fluid In Cavitation Bubble Coalescence
31	NITM/SI2018/PH/02	Dr. Arpita Nath	Asymmetry in Cavitation Bubble Oscillations
32	NITM/SI2018/PH/03	Dr. K.Senthilkumar	Representation Theory of SU(2) and SU(3) symmetry in quark model
33	NITM/SI2018/PH/04	Dr. W.L. Reenbohn	Inhomogeneous ratchets driven by colored noise
34	NITM/SI2018/PH/05	Dr. Tribedi Bora	Analysis of Nanoparticles by Using Rietveld Refinement
Chemistry (CY) Department			
35	NITM/SI2018/CY/01	Dr. Atanu Singha Roy	Binding of biologically potent small drug like molecules with the carrier proteins
36	NITM/SI2018/CY/02	Dr. Paresh Nath Chatterjee	Organometallics and catalysis
Mathematics (MA) Department			
37	NITM/SI2018/MA/01	Dr. M. Saha	Numerical methods for solving linear systems
38	NITM/SI2018/MA/02	Dr. Srinivas Jangili	Analytical and semi-analytical methods

Eligibility:

- ❖ **B. Tech.:** Completed **five/ six semesters** in the relevant disciplines.
- ❖ **M. Tech.:** Completed at least **two semesters** in the relevant disciplines.
- ❖ **M. Sc.:** Completed at least **one year/two semesters** in one of the following disciplines: Physics/Chemistry/Mathematics.



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Duration:

The internship shall be for a period of maximum **8 weeks** between **21st May and 13th July, 2018**.

How to Apply:

Interested students have to submit online application form for the summer internship program at NIT Meghalaya. The online application form can be submitted from **1st to 15th April 2018**. The hard copy of application form duly signed by their Head of Department/Institution must be sent to "**Dr. Pradeep Kumar Rathore, Coordinator - Summer Internship 2018, Room No. F-5, Administration Block, NIT Meghalaya, Bijni Complex, Laitumkhrach, Shillong-793003, Meghalaya, India**" so that it reaches the addressee by **30th April 2018**. Incomplete or late applications will not be considered for further processing.

Selection Process:

Selection of applications will be based on the recommendations of selection committee of the respective departments at NIT Meghalaya. Moreover, NIT Meghalaya reserves the right to accept or reject an application without assigning any reason thereof. List of shortlisted candidates and concerned supervisors will be published in the institute website by **4th May 2018**. No postal communication will be made in this regard.

Caution Money:

Selected candidates have to deposit **Rs. 2500/-** as a caution money which is refundable only after the successful completion of the internship. Details of payment process will be uploaded with list of shortlisted candidates in institute website.

Accommodation and Mess Charges:

Shared accommodation will be available in student's hostel on payment basis. Maintenance charge of **Rs. 750/-** will be charged for those who shall be opting for hostel accommodation. The amount will be deducted from the caution money. Also, the candidates shall have to bear their mess expenses as per the existing rate in the hostel mess.

Important Dates:

Event	Date
Start date for online applications	1st April 2018
End date for online applications	15th April 2018
End date for receiving of hardcopy of the duly filled application form at NIT Meghalaya	30th April 2018
Declaration of list of students selected for summer internship programme	4th May 2018
Start date of summer internship programme	21st May 2018
End date of summer internship programme	13th July 2018

For any queries related to summer internship program, students can contact at: **summer.internship@nitm.ac.in**