



राष्ट्रीय औषधीय शिक्षा एवं अनुसंधान संस्थान— हाजीपुर
National Institute of Pharmaceutical Education and Research (NIPER)— HAJIPUR
औषध विभाग / Department of Pharmaceuticals
रसायन एवं उर्वरक मंत्रालय, भारत सरकार / Ministry of Chemicals & Fertilizers, Govt. of India
Dist: Vaishali, State: Bihar, India, PIN: 844102, Website: www.niperhajipur.ac.in

Summer Training/Dissertation Programme

1. Overview:

The NIPER-Hajipur is inviting students and scholars from different institutes to participate in Internship/ summer training/ dissertation programme involving basic and quality training in different fields of Science. This kind of training is chargeable and the details of NIPER-Hajipur facilities are available in the Website.

2. Eligibility:

- Candidates pursuing B.Pharm/B.E/B.Tech/B.Sc. or Integrated M.E./M.Tech/M.Sc., with good academic background with academic score of minimum 75%.
- Working pharmacists/professional in pharma/food/agro industries etc.,
- Candidates pursuing M.Pharm/M.Tech/M.Sc./PhD with a good academic background.
- For High end instrument / technique training PhD are preferable.

3. Period of the training/project:

- 15 days to Six Months depends on the type of module

4. Application Procedure:

Candidates must apply online through mail (dean@niperhajipur.ac.in, anupamjana@niperhajipur.ac.in).

It requires submission of

- a cover letter from the head of the Institute describing the applicant's details
- Choice of module / Duration
- a curriculum vitae or resume
- a list of course undertaken by the candidates
- Candidates may also specify the subject areas, scientific methodologies and/or disease domains/instruments that they want to use and learn.

5. Selection

The NIPER Summer Internship Program is highly competitive. Applications are reviewed on a rolling basis by a team of scientists in the Institutes. Candidates will be informed of their selection through email ONLY. Successful candidates will be required to submit the following documentation to the Institute to beginning their training:

- Recommendation letter cum no-objection letter from their College/University
- a curriculum vitae or resume

- a list of course undertaken
- Declaration form of NIPER-Hajipur

6. Different modules/ areas of training:

Module	Topic	Focussed Skills	Co-ordinator
Module 1	Molecular Biology	Purification and analysis of DNA/RNA. PCR, Real-time PCR and gene expression studies. Cloning and expression	Dr D Mandal
Module 2	Biochemistry	Enzyme purification and assays. Cell based assays including MTT etc.	Dr A Sahu
Module 3	Microbiology	Bacterial/fungal/parasitic culture studies, Growth curve/ drug inhibition assay using ZOI, CFU etc.	Dr D Mandal Dr A Sahu
Module 4	Cell biology	Mammalian cell culture using cancer cells, neurons, macrophages etc; Microscopy, ELISA etc.)	Dr Murali K Mrs. Rajni Khan
Module 5	Instrumentation facility	Basic: UV-Visible, FT-IR, Fluorescence spectroscopy, fluorescence microscopy Osmometer, rheometer, etc. Advanced: HPLC, differential scanning calorimetry, Dynamic light scattering, High end: LC-MS/MS, Prep. HPLC (Only PhD scholars /Faculty members with HPLC knowledge)	Dr P Ramalingam
Module 6	Preclinical Studies.	Animal handling, drug dosing, creation of different disease models with mice and rat, toxicity analysis etc. (Demonstration)	Dr Sanjiv Singh
Module 7	Drug screening,	preparation/analysis of plant extracts for tests in different animal models of disease (diabetes, inflammatory bowel disease, cancer, neurological disorders, fungal diseases etc.)	Dr Nitesh Kumar
Module 8	Formulation development	Development and optimization drug-carriers (Microsphere, Neosomes etc.)	Dr Vinod L Gaikwad
Module 9	QbD / AQbD	QTPP/ATP Design, Risk assessment, DoE, Design Space/MODR, Model verification.	Dr P Ramalingam Dr Vinod L Gaikwad
Module 10	Medication safety in	Medication safety and rational use	Dr S Dhingra

	hospital and community pharmacy settings	of medicines, Infection prevention and control including antimicrobial stewardship, Adverse drug reaction monitoring, Drug-drug interactions and other patient oriented considerations in clinical and community settings.	Dr K Murti
Module 11	Phyto-/Synthetic Chemistry & Column Purification	Chemical synthesis design, reaction monitoring, fractionation and purification of plant extract / synthetic compounds	Dr A Jana

7. Training/Project Fees:

Students level	Duration	Fees (Rs.)/ each person
B. Pharm/B.Sc. and Undergraduates	For 15-30 days	7000/-
	30-180 days	5000/- per month
M. Pharm/M.Sc. and post graduates	For 30-60 days	10,000/- per month
	For 60-180 days and above (Including small projects and dissertation)	10,000/- per month

8. Accommodations: Own Arrangements.

9. Mess/ canteen facility: Available on paid basis as per the canteen rate.



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Application for summer training / Instrument training programme

Ref: _____ (office purpose only)

Date: _____

a) Applicant information

Name	
Designation/year of Study	
Supervisor Name	
Address (Institute/company)	
Institute type	Educational/Industry/MSME/Research Lab
Phone/e-mail	
Aadhar No.	

b) Information on required training /Skills

Training Module as per NIPER Hajipur*	
Duration	
Tentative date	
Details of any specific training required ?	
Recommendation letter attached? Yes/No.	Yes/No
Are you aware fee to be paid for training	Yes/No
Previous knowledge on the selected module	

*kindly discuss with assigned scientist prior to fill this form. Note that during training you will be posted to on-going project of the department only. No new project will be assigned. You may choose any on-going project in discussion with the scientist of the department. No data will be shared.

I shall abide by the rules/norms of the institute during the training.

Signature of the applicant

C) Account information (For office use only)

Account Name	
Account No.	
Bank / IFSC code	
Amount to be charged (+GST)	
Scientist in-charge	
Training start date	
Training End date	
Date of training certificate issued	

Signature of the Scientist

Accounts section

Head of the Department

Dean