ADVERTISEMENT

Call of Applications for Summer Internship Programme

Applications are invited for Summer Internship Programme for 5 to 8 weeks commencing from 15th May, 2023 to 15th July, 2023 without any fellowship. Internship will be in offline mode. The candidates are required to apply online from IITs, NITs, IISERs, National Labs, Centrally funded technical Institutions, CEAs, Government Universities, Private institutions/Universities. Indian Academy of Sciences,DST Inspire or Similar organization.

The department will select the students on the basis of research area, academic credentials etc. and the number of slots available for summer internship.

Sr. No.	Departments	Research areas	No. of slots available in Dept.
1	Biomedical Engineering	**Immunity & Infection**	3
2.	Center for Applied Research in Data Sciences	**Applied Research Data Sciences**	2
3	Chemical Engineering	1. **CFD Study of Complex Fluids** 2. **Process Control and Optimization** 3. **Chemical Reaction Engineering** 4. **Advanced Colloids and Interfacial Engineering** 5. **Machine Learning in Complex Fluid Dynamics** 6. **Dynamics of Dense Granular Materials** 7. **Machine Learning Applications in chemical/biochemical and health care systems** 8. **Nanotech and Nanobubble** 9. **Polymer Science**	20
4	Chemistry	1. **Biomaterials** 2. **Peptide Chemistry, Computation in Drug Discovery** 3. **Organic Chemistry** 4. **Computational and Theoretical Chemistry** 5. **Theoretical Biophysical chemistry** 6. **Organic Synthesis** 7. **Organic Synthesis** 8. **Organic Synthesis** 9. **Inorganic Chemistry** 10. **Quantum Spin Dynamics**	13
5	Civil Engineering	1. **Analysis and design of hollow concrete slabs** 2. **Thermal analysis of reinforced concrete slabs**	9

		3. Effect of wind load on transmission line towers 4. GIS MODELLING IN Hydrology 5. Air pollution control technology 6. Municipality solid waste management 7. Health risk of air pollutants 8. Green air purifiers 9. Behavioral analysis in context of sustainable transportation choices	
6	Computer Science and Engineering	1. Applied deep learning, Data Analytics, App development 2. IoT 3. AI for Social Good 4. Drones and machine learning 5. Computer systems and computer architecture	21
7	Electrical Engineering	1. Analog integrated circuit design 2. Semiconductor devices 3. Next generation wireless networks 4. Renewable Energy 5. Machine learning for communication and hardware implementation 6. Converter Design for Electric Drives	11
7	Humanities and Social Sciences	1. Linguistics/Phonology 2. Economics: Urban economics, industrial economics, open economy macroeconomics, spatial econometrics and economic geography 3. Management: operations management, decision Science, and Machine learning	5
8	Mathematics	1. Number Theory 2. Functional Analysis 3. Dynamical Systems 4. Mathematical Modelling on Water Wave Mechanics 5. Stochastics Calculus	13
9	Mechanical Engineering	1. Drop impact studies 2. AI in product design, Agri website 3. Biomechanics, Noise and Vibration 4. Fracture mechanics 5. Aero modeling 6. Fatigue analysis, 7. Cavitation erosion study 8. Manufacturing Processes	18

		9. Droplet dynamics and heat transfer	
10	Metallurgical & Materials Engineering	1. App development 2. **GUI development for ML software*** 3. Materials for bipolar plates of PEM Fuel cell 4. ML based analysis of Stress/Anger management (app making and data analysis) 5. ML in materials 6. Mechanical testing and fracture behavior 7. Optical materials 8. Synthesis of Porous Materials 9. Quantitative fractography and damage mechanics	9
11	Physics	1. Dr. Sandeep Gautam: Ultracold quantum gases (Theory) 2. Dr. Rakesh Kumar: Condensed Matter Physics 3. Dr. R.V.Nair: Quantum-and Nano-photonics. 4. Dr.Vishwa Pal - Laser Physics	9

The last date of submission of applications is 16th April, 2023 (Sunday).

1. The candidates must select Research area in their relevant field of study/ course. They have an option in the form to select atmost 3 Research areas.

2. The Candidates are required to do their internship in one department under one supervisor only. If they are found doing the opposite, their internship will be treated as null and void and no certificate will be issued.

3. Hostel accommodation on sharing basis will be provided subject to availability on chargeable basis. "The application for accommodation (only after being selected for internship) should reach the office of Dean of Student Affairs through the faculty supervisor and the HOD for permission. The cost towards food and access to other amenities have to be paid by the student."

4. The area of research indicated in the advertisement is general.

5. The number of slots advertised in the departments will vary. The Institute reserves the right to increase or decrease the slots

6. No financial assistance will be provided to the candidates.

Click for applying online.

J.R (CEOA)