Indian Institute of Technology Indore

Advertisement for Admission to Ph.D. Program

Center for Biosciences and Biomedical Engineering

September 23, 2016

The Center for Biosciences and Biomedical Engineering (BSBE) at IIT Indore invites applications from highly motivated and research-oriented students for admission in its **PhD Program for the first quarter of the academic year 2016-2017 as** per the below-mentioned categories. Candidates are strongly advised to visit the profiles of the faculty members at http://bsbe.iiti.ac.in/.

Categories of Admission: Admission to Full-Time PhD program is offered under the following categories

- **FA**: Fellowship Awardees from the agencies such as CSIR, UGC, etc. or the JRF/SRF project staff working in a Sponsored Research Project under a faculty of IIT Indore being PI of the project. The Scholarship will as per the rules/guidelines of the concerned Funding Agency.
- **TA:** Teaching Assistantship with scholarship as per MHRD guidelines.
- **SW:** Sponsored from a reputed Industrial or Research organization WITHOUT any scholarship from the Institute.

Minimum Qualification for Application

1. Minimum first class* Master's degree in Computer Science and Engineering / Electrical / Electronics / Mechanical / Biomedical / Chemical / Biotechnology / Signal Processing / Aerospace OR
2. Minimum first class* bachelor's degree in Computer Science and Engineering / Electrical / Electronics / Mechanical / Biomedical / Chemical / Biotechnology / Signal Processing / Aerospace Engineering with a valid GATE qualification or UGC/CSIR-JRF or equivalent fellowship OR
3. B. Tech. degree from an Indian Institute of Technology (IIT) with a minimum CPI of 8.0 OR

Minimum first class* master's degree in Chemistry, Biochemistry, Microbiology, Biomedical Science, Applied Mathematics, Mathematics, Physics, System Biology, Bioinformatics, Computer Science, Life Sciences, Biotechnology, Biophysics with a valid GATE qualification or UGC/CSIR-JRF qualification or equivalent fellowship.

* The first class is defined as

(i) 60 % marks for GEN/OBC (55% for SC/ST) category in aggregate or as specified by the university/institute , **OR**

(ii) CPI/CGPA of 6.0 for GEN/OBC (5.5 for SC/ST) category on the scale of 10 with corresponding proportional requirements when the scales are other than on 10 (for example 4.8 for GEN/OBC category (4.4 for SC/ST) on a scale of 8) , **OR**

(iii) A first class as specified by the University/Institute awarding the degree.

Areas of Specialization	
Dr. Prashant Kodgire	Molecular Biology, Molecular Immunology, Somatic hypermutation of immunoglobulin genes and Chromatin structure and gene regulation For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=3
Dr. Amit Kumar	Chemical Biology, Structure Biology, NMR Spectroscopy, Target Identification and Drug discovery for different diseases, Proteomics, Computer Based Drug Design (SBDD/FBDD), Molecular Modelling for Biological System For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=4
Dr. Sharad Gupta	Biophotonics and Biomaterials, Non-invasive Characterization and Near Infrared (NIR) Disease Diagnosis, Targeted Drug Delivery Systems, Cellular Mechanics. For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=5
Dr. Debasis Nayak	Molecular Virology, Viral Immunology, Neuroimmunology. For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=6
Dr. Saqib Baig	Innate immunity & Inflammation, Macrophage Biology, Transcriptional Regulation, Signal Transduction For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=17
Dr. Abhijeet Joshi	Biosensors, Biomaterials, Drug Delivery, Diagnostics, Theranostics For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=18
Dr. Parimal Kar	Computational Biophysics, MD simulations of Biological Molecules, Molecular Recognition For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=21
Dr. Hem Chandra Jha	Host-Pathogens interaction, Pathogens burden, Biomarkers, Cancer Biology For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=24
Dr. Chelvam Venkatesh	NIR imaging & Bio-conjugate technology, Immunotherapy and targeting ligands for cancer and inflammation, Nuclear imaging-PET, SPECT and scintigraphy. For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=7
Dr. Premjit K. Sanjram	Human Factors: Medical and Healthcare Human Factors, Cognitive Ergonomics, Human-System Interaction For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=8 ; http://hfaclab.iiti.ac.in/
Dr. Shaikh M. Mobin	Biosensors and Bioelectronics, Nanotechnology, X-ray Crystallography. For information visit: http://people.iiti.ac.in/~xray/
Dr. Sarika Jalan	Complex biological networks, Spectral graph theory, Random matrix theory, Synchronization, Coupled chaotic dynamics on large networks, Delayed networks, Extreme events, Adaptation and Evolution. For information visit: http://people.iiti.ac.in/~sarika/
Dr. S. Dhinakaran	Biofluid Mechanics, Blood flow in arteries, Non-Newtonian fluid Mechanics, Computational Fluid Dynamics For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=11

Dr. R. B. Pachori	Biomedical Signal Processing, Non-stationary Signal Processing, Speech Signal Processing, Brain-Computer Interface Signal Processing Applications For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=12
Dr. S. Vasudevan	Biophotonics, Photothermal response & imaging For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=13
Dr. S. Chattopadhyay	Bio-nanomaterials, Biomineralization, Surfaces and Interfaces For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=15
Dr. Kiran Bala	Biodiesel Production, Carbon Sequestration, Bioremediation For information visit: http://bsbe.iiti.ac.in/faculty_details.php?fac_id=16
Dr. Suman Mukhopadhyay	Metals In biology, Oragnometallic therapeutic agent For information visit : http://www.iiti.ac.in/people/~suman/

Application Fee: Application Fee: 100/- Indian Rupees to be paid through State Bank Collect. Click here for Payment or Rs. 100/- to be paid through a Demand Draft (DD) drawn in favor of "Registrar, IIT Indore" and payable at Indore.

Application Procedure:

- Candidates must apply ONLINE through our website (http://academic.iiti.ac.in:8080/nregistration.jsp). This will generate a unique application number for each applicant.
- After submitting the application online, the same is to be downloaded and the signed hard copy along with Demand Draft, recent photograph, self-attested relevant certificates (for SW candidates - NOC, experience certificate, last 3 months salary slips and Employer's PAN card) must be sent to the concerned DPGC Convener at the below-mentioned address of correspondence.
- The candidate MUST write his/her name, name of the discipline and the Application Number on the reverse side of the Demand Draft.
- The envelope of the application must CLEARLY mention *"APPLICATION for ADMISSION in PhD Program in Center for Biosciences and Biomedical Engineering".*
- In case a candidate wishes to apply in more than one discipline then *separate application must be filled for each discipline.*

Name of the Discipline	Name/E-mail of the DPGC Convener	Address of Correspondence
Biosciences and Biomedical Engineering	**Dr. Amit Kumar** **amitk@iiti.ac.in**	Indian Institute of Technology Indore, Simrol Campus, School Building-SB 207 Khandwa Road Pin Code 453 552 Indore, Madhya Pradesh, India.

This is a rolling advertisement. Applications are invited throughout the year. Interviews will be conducted whenever sufficient applications are received until all the posts are filled. Information on shortlisted candidates and date of interview will be announced in our department homepage as well as intimated to candidates by email.

For any queries please contact:

Ph.D. Admission Cell, IIT Indore
Simrol Campus, SB 207, Khandwa Road,
Pin Code 453 552 Indore, Madhya Pradesh, India.
Email: phdadmission@iiti.ac.in