



Advertisement No. 01/PDF/15-16

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The Indian Institute of Technology (BHU), Varanasi invites application from possessing excellent academic background, for carrying out advanced research in the following research area on *purely temporary and time bound*.

Essential qualification: Ph.D. Degree/Provisional Degree Certificate in the relevant area **OR** Ph.D. thesis submission certificate*

*Such candidate needs to produce their Ph.D. Degree/Provisional Degree Certificate within 06 months from the date of appointment (in case of selection).

Sl. No.	Post Code /Department/Advisor name/e-mail ID	Desirable experience/qualification
1.	Post Code- PDF-001/15-16 Department of Chemical Engineering & Technology, IIT(BHU) Advisor: Prof. R.S. Singh e-mail : rssingh.che@itbhu.ac.in	Research experience in microbial analysis using modern tools/techniques. Preference will be given to candidate having experience in handling sophisticated instruments such as GC, HPLC etc.
2.	Post Code- PDF-002/15-16 Department of Electronics Engineering, IIT(BHU) Advisor: Prof. P.K. Jain e-mail: pkjain.ece@itbhu.ac.in	Research experience in High Power Microwave devices & Systems, Microwave Imaging
3.	Post Code- PDF-003/15-16 Department of Electronics Engineering, IIT(BHU) Advisor : Prof. S. Jit e-mail : sjit.ece@itbhu.ac.in , sjit.ece@iitbhu.ac.in , sjit.ece@ieee.org	Research experience in the area of modelling and simulation of nanoscaled nonconventional CMOS devices (e.g. Tunnelling FET, Junctionless FET, FinFET, DG MOSFETs, Strained-Si FETs etc.) Preference will be given to the candidate having in-depth knowledge of using various TCAD software of the Silvaco International and Synopsys Ltd. for simulating various advanced 2D and 3D semiconductor device structures and some expertise in the theoretical modelling of quantum phenomena in the nanoscaled MOS devices.
4.	Post Code- PDF-004/15-16 Department of Ceramic Engineering, IIT(BHU) Advisor: Prof. Devendra Kumar e-mail: devendra.cer@iitbhu.ac.in ; dev_ceramic@yahoo.co.in	Research experience in in-vivo and in-vitro characterization of materials along with different material synthesis characterization techniques.
5.	Post Code- PDF-005/15-16 Department of Pharmaceutics, IIT(BHU). Advisor: Prof. Sanjay Singh e-mail: ssingh.phe@itbhu.ac.in ; drssinghbhu@gmail.com	Research experience in Protein Chemistry, Tissue Culture and Animal Handling
6.	Post Code- PDF-006/15-16 Department of Pharmaceutics, IIT(BHU). Advisor: Prof. B. Mishra e-mail: bmishrabhu@rediffmail.com ; bmishra.phe@itbhu.ac.in	Research experience in Drug Formulation development/ drug delivery/gene delivery/nanoformulations/ herbal drug delivery/ pharmacokinetic and pharmacodynamic studies/ cell-line studies/ cancer chemotherapy (any one or more area)

7.	Post Code- PDF-007/15-16 Department of Pharmaceutics, IIT(BHU) Advisor : Prof. Sushant K Shrivastava e-mail: skshrivastava.phe@iitbhu.ac.in	Research experience in modern organic synthesis, proficient in design of synthesis routes, multi-step organic synthesis, process chemistry development and willingness to work on synthesis of focused libraries of molecules of medicinal chemistry interest And have comprehensive knowledge of modern biology, drug-design software operational skills and detail understanding in their specific area of specialization, keen interest on working on industry-driven research projects, willingness to work on computer added drug design, disease biology and therapeutics.
8.	Post Code- PDF-008/15-16 Department of Physics, IIT(BHU) Advisor : Dr. Sandip Chatterjee e-mail: schatterji.app@iitbhu.ac.in	Research experience in Experimental Condensed Matter Physics And Working experience in Strongly correlated electron systems (Transport and magnetic properties)
9.	Post Code- PDF-009/15-16 Department of Mathematical Science, IIT(BHU) Advisor : Dr. Subir Das e-mail: sdas.apm@itbhu.ac.in subir_das08@hotmail.com	Research experience in the area of <i>Fractional Order Dynamical System</i>
10.	Post Code- PDF-010/15-16 School of Material Science & Technology, IIT(BHU) Advisor:- Dr. Akhilesh Kumar Singh e-mail: aksingh.mst@itbhu.ac.in	Research experience in Synthesizing bulk and nanocrystalline electro-ceramic using sol-gel, combustion, chemical co-precipitation etc. methods and operating synthesis And experience of characterization instrument and experience of characterizing material using XRD, Neutron, SEM, dielectric, magnetic etc. measurements and analytical software like FullProf for Rietveld Structure refinement, unit cell, Powder Cell, origin etc.
11.	Post Code- PDF-011/15-16 School of Material Science & Technology, IIT(BHU) Advisor: Dr.(Mrs.) Chandana Rath e-mail : chandanarath@yahoo.com; crath.mst@itbhu.ac.in	Research experience in Synthesis and characterization of Functional Materials & Application and thin films devices, self assembled nano-particles, synthesis of core shell structure and their applications are preferable.
12.	Post Code- PDF-12/15-16 School of Material Science & Technology, IIT(BHU) Advisor : Prof. Rajiv Prakash e-mail: coordinator.mst@iitbhu.ac.in	Research experience in synthesis of polymers, organic conductors & charge transfer complexes and operating characterization instruments and organic conductors & nanomaterials for their applications in electronic devices, sensors & biosensors and others.
13.	Post Code- PDF-013/15-16 School of Material Science & Technology, IIT(BHU) Advisor : Prof. Pralay Maiti e-mail: pmaiti.mst@itbhu.ac.in; pralay_maiti@yahoo.com	Research experience in cell culture and in vivo studies of drug delivery
14.	Post Code- PDF-014/15-16 (No. of Vacancy-02) Central Instrumental Facility Centre, IIT(BHU) Advisor: Professor-incharge, CIFIC e-mail: cific@iitbhu.ac.in; cificiitbhu@gmail.com	Experience of handling of NMR, Magnetic Property Measurement System and AFM/SPM

GENERAL INSTRUCTIONS TO THE CANDIDATES

1. The Institute reserves the right to withdraw any advertised position(s) at any time without giving any reason.
2. Application should include CV of the applicant, One-page summary of Ph.D. work, brief research proposal, letters of recommendation from Ph.D. supervisor and one-set of self attested copies of publication and copy of all certificates.
3. Institute will provide scholarship to the PDF @ Rs. 36,000/- p.m. (1st yr), Rs. 38,000/- p.m. (2nd yr), Rs. 40,000/- p.m. (3rd yr) + HRA as per rule.
4. PDFs shall generally be **appointed initially for one year** and the appointment may be extended on mutual requirement and availability of position and funds. Duration of appointment shall be limited to maximum three years.
5. To enable the Fellows imbibe the academic culture and to develop their teaching skills PDFs may be associated in teaching activities to a limited extent of four to six hours per week.
6. Selection process includes seminar followed by interview.
7. PDFs may co-supervise UG and PG students. PDFs **shall not be the principal investigator** of any research or consultation project.
8. The position of PDFs is **purely temporary and time bound**. Holding the position of PDF shall in no way be connected to selection as faculty or staff member of IIT(BHU) Varanasi.
9. Candidates who have received **Ph.D. within the last three years** at the time of application shall be eligible.
10. Candidates who have submitted their thesis and waiting for evaluation may also be appointed if they have enough evidence of their research skills and no objection of the supervisor. Such candidate needs to produce their Ph.D. Degree/Provisional Degree Certificate within 06 months from the date of appointment (in case of selection).
11. The age limit for the applicants will be **maximum 35 years** (relaxable by 05 years for women and reserved category candidates).
12. Preference will be given to the candidate having research experience in the area of the research as mentioned by the supervisor during the advertisement.
13. No objection certificate of supervisor will be required in case Ph.D. degree is awaited (Ph.D. work has been completed and thesis submission certificate from Institute will be required).
14. The performance of the postdoctoral fellow will be assessed by the Progress Review Committee (PRC) constituted by the Department/ Schools after the selection of PDF following same norms as for RPC for PhDs.
15. The RPC will meet **every six month** to assess the performance of the postdoctoral fellow. (Progress report: research work carried out supported by reprints/preprints of the papers).
16. Other benefits including leave and medical benefits for PDFs shall be at par with those provided to the PhD research scholars at IIT(BHU) Varanasi.
17. In case of any dispute/ambiguity that may occur in the process of selection, the decision of the Institute shall be final.
18. For updates, please visit the Institute website regularly, as any subsequent amendment will be announced on the Institute website only.
19. Incomplete application or without relevant supporting enclosures will be out right rejected.
20. No TA/DA will be paid if called for interview.

21. Application along with the relevant enclosures should reach the office of Dean(R&D), Indian Institute of Technology (BHU), Varanasi-221005 (India) latest by **30.01.2016**.
22. The envelope should be superscribed with the **Post Code applied for**.
23. Candidate may contact **respective advisor** for further academic queries at the **e-mail address** given above.

TERMINATION:

If the Post Doctoral Fellow wishes to leave the programme before the end of the tenure, he/she can do so with prior approval of the PRC giving one month's notice. The fellowship may be terminated by the Institute if the performance/conduct of the fellow is unsatisfactory after giving one month's notice to the Post Doctoral fellow. In this case the supervisor may advertise again PDF position for remaining period but it should not less than one year (i.e. remaining period must be 1 year or more)