



## Indian Institute of Technology Indore

**IET Campus:** IET-DAVV Campus, Khandwa Road, Indore – 452 017 (M.P.)

**PACL Campus:** 113/2-B (Opp. to Veterinary College), Village Hernia Khedi, MHOW Road, Indore 453 446 (M.P.)

**Simrol Campus:** Khandwa Road, Simrol, Indore 452020

IIT Indore

### Annexure A2

Dated: 28/10/2015

### Advertisement for a Postdoctoral Position

Applications are invited from motivated and eligible candidates for a postdoctoral position in the research project “Reliability modeling for FinFET and its application in circuit design: A device-circuit co-design approach”.

The FinFET technology is not mature as SOI-MOSFET therefore lot of exercise is required. Random Telegraphic Noise (RTN) effect analysis on FinFET in different biasing condition will be the first step for reliability modeling. In next step, Bias Temperature Instability (BTI) modeling for FinFET is also major concern in nanoscale. Therefore, RTN and BTI modeling shall be the major concern of this research project. Possible solutions using device dimension, doping and special biasing, etc are needed to find-out. Further, it will be proposed to design reliable VLSI circuit using device-circuit co-design approach with the developed model.

**Eligibility:** Ph.D. in Microelectronics/ VLSI Design/Computer Science (specialization in VLSI)/ Electronics/Electronics and Communication/Electrical. (Please note that you should have defended your Ph.D. dissertation.)

#### Stipend:

Postdoctoral Fellow will be paid consolidated salary based on the following salary structure of the DST for Research Associate.

Category	Emoluments per month
Research Associate-I	Rs. 36,000/-
Research Associate-II	Rs. 38,000/-
Research Associate-III	Rs. 40,000/-

The category will be decided/recommended by the selection committee based on the qualification/Experience/Performance in the interview of the candidate.

**Service conditions:**

(i) DA: Postdoctoral Fellow will not be entitled to DA.

(ii) House Rent Allowance (HRA): All Postdoctoral Fellow may be provided accommodation based on availability and those residing in accommodation provided by the institute will not be eligible for drawing HRA. Wherever provision of hostel accommodation is not possible, HRA may be allowed to Postdoctoral Fellow as per Government norms applicable in the city/location where they are working. The fellowship amount may be taken as basic for calculating the HRA.

(iii) Medical Benefits: The Postdoctoral Fellow will be entitled for medical allowance as per institute policy.

(iv) The travel entitlement for Postdoctoral Fellow for participation in scientific events/workshops in India will continue to be as per institute norms.

**Duration:** The appointment is for one year.

Interested candidates are requested to submit a detailed CV to **Dr. S. K. Vishvakarma** via e-mail: [skvishvakarma@iiti.ac.in](mailto:skvishvakarma@iiti.ac.in).

Only shortlisted candidates will be intimated by email for the selection process. No TA/DA will be paid for appearing in the selection process.