



The IBM India Semiconductor Research and Development Center invites applications from outstanding scientists/engineers who would like to return to India for multiple positions in the area of nano science and technology at IBM. The candidates are expected to contribute to the design, theory, and modeling of next generation semiconductor nanodevices. The research and development work involves ab-initio physics based modeling and Technology-CAD for the 32/22/14nm and beyond devices.

Atomistic/Quantum Effects in Nanodevices: This work involves theoretical and modeling of quantum effects in 32/22/14nm and beyond devices: these include carrier transport, band-structure, high-k materials modeling, workfunction engineering and related phenomena for enabling the advanced 32/22/14nm high performance, low power.

Technology – CAD Development and Calibration: This work involves the improvement and development of an IBM proprietary tool for the simulation of leading edge semiconductor devices. In particular, physical and numerical models for carrier transport influenced by *e.g.*, channel materials, strain, high-k materials, and crystallographic orientation on device performance will be developed and implemented. On the calibration side, the IBM device simulator is going to be used for the 32/22/14nm devices.

Qualifications required:

Interested applicants for the above regular research positions should have a Ph.D/MS in Physics, Electrical Engineering, Applied Physics, Computer Science, or Theoretical Materials Science.

Application Procedure:

Please send your resume to kotamurali@in.ibm.com

For further information please visit: www.ibm.com/chips

Please note that all jobs compensate according to the local market and will require work authorization. You will be contacted for next steps, if we determine a strong match.

IBM's Employment Policy: IBM is committed to creating a diverse environment and is proud to be an equal opportunity employer. All qualified applicants will receive consideration for employment without regard to race, color, religion, gender, gender identity or expression, sexual orientation, national origin, genetics, disability, age, or veteran status.