

Current Openings

Post-doctoral Fellows and Research Assistant Professors in the Department of Chemistry (Ref.: RF-2009/2010-435) Applications are invited for appointments as Post-doctoral Fellows (PDF) and Research Assistant Professors (RAP) in Emerging Electronics in the Department of Chemistry, from as soon as possible for one to three years, with the possibility of renewal.

Applicants should possess a doctoral degree in Chemistry, Physics, Materials Science or Electromagnetics, with strong experience in Theoretical and Computational Chemistry and Physics, Materials Science, Electronics, Electromagnetics or related field. Strong and demonstrated experience in modeling, programming and microelectronics would be an advantage.

Successful candidates will join a multi-institutional interdisciplinary project in Hong Kong to develop a suite of multi-scale electronic devices and circuit modeling software tools ranging from atomistic simulation methods, circuit simulators, to electromagnetic solvers, and calculate the electric properties of emerging electronic devices and integrated circuits. Specifically, the successful candidates will work in one of the following projects:

- To simulate from first-principles the electrical properties and processes of sub-15nm devices with atomistic details
- To calculate and model the electrical, chemical and mechanical properties of new materials for sub-15nm technology
- To develop a set of multi-scale EDA tools for emerging devices and integrated circuits

The project is jointly held by The University of Hong Kong and The Hong Kong University of Science and Technology. The current project team comprises Professor Fu-Chun Zhang (Physics, HKU), Professor Philip Chan (EE, HKUST), Professor GuanHua Chen (Chemistry, HKU), Professor Weng-Cho Chew (EE, HKU), Professor Hong Guo (Physics, McGill Univ.), Professor Jian Wang (Physics, HKU), and several co-investigators. The successful candidate will join the task group led by Prof. GuanHua Chen to develop a multiscale simulation tools for emerging electronic devices and integrated circuits.

A highly competitive salary commensurate with qualifications and experience will be offered. Annual leave and medical/dental benefits will be provided. The appointments of RAPs for two years or more will attract a contract-end gratuity and University contribution to a retirement benefits scheme, totaling up to 15% of basic salary.

Interested candidates should send a cover letter outlining their qualifications, earliest date of availabilities, contact information of three referees, the position they are applying for and a C.V. to Dr. Jian Sun (e-mail: sunjian@yangtze.hku.hk; tel: (852) 2859 8045) or to any of the above named team members. Review of applications will continue until the posts are filled. Candidates who are not contacted within 3 months from the date of their applications may consider their applications unsuccessful.