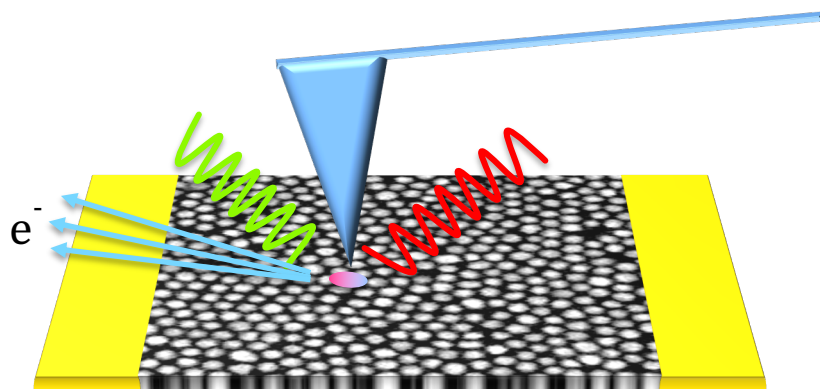


2 Open PhD Positions

Multi-Modal Scanning Probe Microscopy

The Nanotechnology Group invites applications of prospective PhD students to develop instruments and methods for studying charge transport across molecular electronic and plasmonic junctions by scanning probe techniques.



The Nanotechnology Group is active in the field of advanced scanning probe microscopy and instrument development to study electronic properties and energy conversion on the nanometer scale. In molecular electronic junctions single or few molecules bridging nanoscale conductors provide electronic function. Excited by photons or free electrons, the nanoscale conductors also support plasmonic excitations. Together, these distinct features open up a whole new range of transport phenomena on the nanometer scale. The successful candidates will develop novel tools and imaging techniques capable of detecting multiple signals simultaneously with the aim of better understanding local charge transport modulated by electrical, optical, and thermal excitations. One position will focus more on excitations by electrons, the other one more on excitations by photons. Both PhD students are expected to collaborate closely.

We seek highly motivated and skilled candidates with an MSc degree in physics or a related area who are keen to develop cutting-edge instruments for creative research in molecular electronics and plasmonics. Ideally candidates already have practical experience in scanning tunnelling or atomic force microscopy and instrumentation.

Applications including CV, letter of motivation, transcripts of grades, and names and e-mail addresses of two referees should be submitted by email:

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