



Ph.D Position in Molecular Surface Science

A Ph.D position is available in the Scanning Tunneling Microscopy group of the Zernike Institute for Advanced Materials of the University of Groningen. The STM group is part of the Surfaces and Thin Films group and it has been established in February 2010 under the guidance of Dr. Meike Stöhr.

In our group we investigate the adsorption of organic molecules on atomically defined substrates. Special emphasis is put on the examination of the molecule - substrate and intermolecular interactions since their interplay governs the resulting self-assembly structures. In addition to scanning probe methods at variable temperatures, we employ classical surface science techniques such as XPS, UPS, LEED etc. With these techniques complementary information on the structural and electronic sample properties are acquired.

The successful candidate will build up 2D supramolecular structures from specially designed molecular building blocks (synthesized from our collaborators from chemistry). In a first step, the structure of the obtained assemblies will be characterized in detail. In a second step, the functional properties will be probed and it will be determined which conditions are needed that these properties can develop. Further studies will include investigations of re-designed molecules as well as the improvement of the structural and functional assembly properties.

We are looking for a motivated candidate who has graduated in Physics, Chemistry or Material Sciences and preferably, has some experimental experience in surface science and / or ultrahigh vacuum.

For further information please consult also the following webpage: <http://nanolab.unibas.ch>.

Please address applications to

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