

Summer Student Positions

We are looking for motivated students to work with us on the following experimental projects:

1. Atomic resolution AFM imaging of molecules

This project involves developing methods to measure the atomic structure of molecules using atomic force microscopy (AFM)

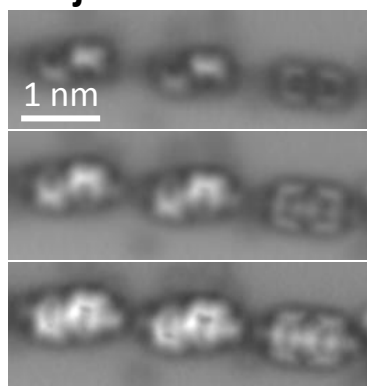
2. Formation of metal-organic frameworks with heavy metal atoms

This project involves fabricating ordered arrays of metal atoms cross-linked by organic molecules and studying their electronic properties using scanning tunneling microscopy (STM)

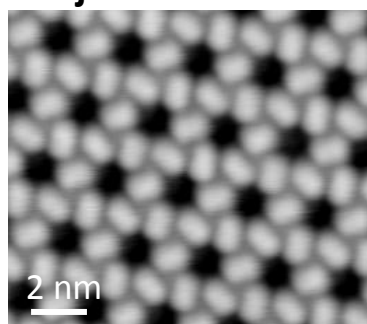
3. Growth of VSe_2 on Bi_2Se_3 for magnetic topological insulators

This project involves investigating the growth of 2D monolayer magnet VSe_2 on a topological insulator (Bi_2Se_3) substrate. This type of growth has been demonstrated for FeSe and we will test if the process can be extended to other metals

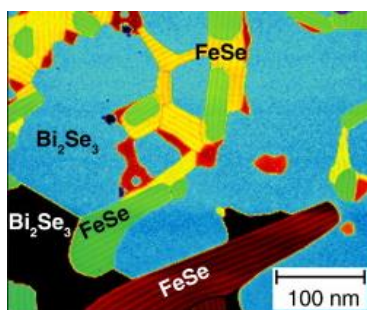
Project 1



Project 2



Project 3



All projects involve operation of ultra-high vacuum sample growth and characterization facilities. They are carried out as a part of a team and can constitute a bachelor's thesis, a special assignment, or master's thesis. For more details, contact Peter Liljeroth (peter.liljeroth@aalto.fi)

For more info on the group and the latest news:

<http://physics.aalto.fi/en/groups/stm/>

