

## Avdelningen för Mekanik

### Master project in computational materials science

In this project you will investigate the mechanical properties of nanowire heterostructures using molecular dynamics simulations.

Important questions to address:

- What is the critical thickness for plastic deformation and how does this depend on nanowire radius and lattice mismatch?
- What kinds of dislocations form?
- How do your calculations compare to existing predictions based on continuum solid mechanics?

This is a joint project between Mechanical Engineering & NanoLund. If you are interested, please contact:

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