



LUND
UNIVERSITY

Faculty of Science, Departments of Biology and Astronomy and Theoretical Physics

4 Postdocs and 6 PhD studentships

in MOLECULAR AND MICROBIAL INTERACTIONS CONTROL SOIL CARBON SEQUESTRATION
<http://www.miccs.info/>

We want to recruit members to be part of the larger multidisciplinary research program “Molecular Interactions Controlling soil Carbon Sequestration – MICCS”. The overall goal of this program is to gain a mechanistic understanding of the interactions between soil organic matter (SOM), the activity of decomposing microorganisms and the physico-chemical environment that control the stability of SOM.

The MICCS research environment consists of a strong team of scientists, research technicians, post docs and PhD students studying these interactions at different complexity and spatial scales – from defined model systems to field sites – using cutting-edge technology ranging from spectroscopic analysis to transcriptome profiling, isotope labeling, and systems biology methods.

Postdoctoral Fellowships

1. Molecular microbial ecology ([link](#))
2. Soil science ([link](#))
3. Geochemistry/surface chemistry ([link](#))
4. Computational biology ([link](#))

PhD student positions

1. Interactions between soil organic matter (SOM) and mineral surfaces ([link](#))
2. Molecular Microbial Ecology ([link](#))
3. Priming and soil organic matter decomposition ([link](#))
4. The importance of ectomycorrhizal fungi for carbon sequestration ([link](#))
5. Microbial use of terrestrial carbon in aquatic and terrestrial ecosystems ([link](#))
6. Drivers behind strongly increasing iron concentrations in surface waters ([link](#))

*Knut och Alice
Wallenbergs
Stiftelse*

