

Postdoc Scholarship in Nanotechnology and Functional Materials with specialization in advanced virus separation methods

At the Division of Nanotechnology and Functional Materials, Department of Engineering Sciences, we work with a range of advanced nanomaterials for various applications within life sciences. Nanocellulose is one such material that has been thoroughly studied in our group. Currently, we are developing nanocellulose-based paper filters for size-exclusion virus removal. We are looking for a Postdoctoral fellow to investigate the efficiency of virus removal in vitro from liquids of various compositions. The scholarship will be dedicated to gain fundamental understanding of virus removal mechanisms in non-woven size exclusion filters.

Qualifications

We seek a candidate with a PhD degree in virology with documented experience of working with viruses and/or bacteriophages. The prospective candidate should preferably be proficient in tissue culture infectivity testing (TCID₅₀), qualitative polymerase chain (qPCR) technique, and plaque-forming unit (PFU) assays. Candidates with previous experiences of virus removal filtration validation assays will be given priority. The prospective candidate should have good communication skills (both written and oral) in English, be able to work in a group and have an ability to take initiative. The scholarship is intended for a period of 6 months with possibility for extension to 9 months, depending on results. The work will be performed in collaboration with the Department of Clinical Microbiology, Karolinska Institutet, Huddinge, Stockholm.

Contact person: Prof. Albert Mhraryan +46 70 167 90 37, email almi@teknik.uu.se; Prof. Anders Sönnernborg +46 8 585 81 338, email anders.sonnerborg@ki.se

Application

Your application, marked with reference "Virus filter", should include personal letter, CV, copies of diplomas from university(ies) and other documents you may wish to refer to, such as recommendation letters.

Deadline for application is April 30, 2016.