At the Division of Nanotechnology and Functional Materials, Department of Materials Science and Engineering, we work with a range of advanced nanomaterials for various applications within life sciences. Bioprocessing and bioseparations are among of the fields where nanotechnology principles are very useful. Currently, we are working with both upstream and downstream bioprocessing, such as separation and purification of protein-based drugs and cell-culture media components. We are looking for highly motivated students to investigate contribute to our research and gain deep understanding of industrial bioprocessing.

**Project description**

Development and application of tailor-made cellulose-based nanofilters for advanced therapy medicinal products (ATMPs), such as cell and gene therapies; statistical process controls and process analytical technology in bioprocessing with strong focus on materials science and process optimisation.

**Qualifications**

Mihranyan’s group seek for students with background in molecular biotechnology or chemistry engineering with focus on life sciences. The prospective candidate should preferably be proficient at least in one of the following fields: cell culture techniques, chromatography, microbiological techniques, and protein characterization methods. The prospective candidate should be highly motivated to learn and work in a team where innovation and application is the main focus. He/she should have good communication skills (both written and oral) in English. We can offer research projects with strong industrial focus, including Master thesis project, summer internship and other forms of practical education.

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**Application:** continuously.