



## SAHLGRENKA AKADEMIN INSTITUTIONEN FÖR BIOMEDICIN

### Utlysning

**Project Title:** Diagnostics methods to analyze therapeutic oligonucleotides

**Project duration and dates:** 1 Jan 2026 to 6 June 2026

**Application deadline:** 1 Dec, 2026

**Amount:** Stipend of 16 000 SEK /month

#### **Project summary:**

Therapeutic oligonucleotides offer a promising modality for treatments of patients with various diseases and conditions. The use development and use of therapeutic oligonucleotides is a rapidly growing research field, where the first approved treatments are clinically used. However, there are several challenges when developing therapeutic oligonucleotides, including evaluating different oligonucleotide sequences and their specificity. One issue is to detect and quantify therapeutic oligonucleotides reliable. Therapeutic oligonucleotides are short molecules with a range of different modifications, which make them challenging to analyze with traditional analytical methods, such as PCR and sequencing. The goal of this project is therefore to develop a sensitive and specific method that enable the quantification of different types of therapeutic oligonucleotides. Another objective is to use this this method targeting different types of oligonucleotides, including their use in experimental model systems.

The aim is to develop and test an analytical approach that enables specific and sensitive analysis of different types of therapeutic oligonucleotides and test the strategy in vitro.

#### **Applicant:**

We are looking for a highly motivated person, who wants to develop their expertise in tumor biology and molecular techniques. The candidate should have a MSc or be close to finish their MSc in a relevant area. Preference will be given to candidates who already have prior experience in molecular techniques related to therapeutic oligonucleotides.

#### **Application:**

Applications should be emailed to Anders Ståhlberg: [anders.stahlberg@gu.se](mailto:anders.stahlberg@gu.se) The application should include; Motivation letter, CV including contact info.