



CARTANA AB

CARTANA is a start-up company from SciLife lab in Stockholm that pioneers next generation in situ sequencing in tissue samples. CARTANA's technology is based on its proprietary in situ sequencing (ISS) method, which is an unprecedented new type of nucleic acid analysis directly inside tissue sections. It enables simultaneous visualization of expression patterns of hundreds of genes within all cells comprising a tissue – with subcellular resolution – without losing the tissue morphology. CARTANA develops reagent kits and offers services for ISS.

PROJECT DESCRIPTION: *Developing novel ISS methods and analysis*

Your task in this project is to develop specific aspects of the ISS assay and its downstream analysis. You will work with well-defined research plans and goals but will also have creative freedom to propose new solutions and test your own ideas. Our Research and Development team is constituted of experienced assay developers and bioinformaticians who will support your project as needed, and the project is performed in collaboration with top researchers in the Neuroscience or oncology area.

Start of the project: January 2020, or upon agreement.

Throughout the project student may perform:

- different aspects of molecular method development related to sample prep for ISS
- in situ sequencing and fluorescent microscopy
- image- and data analysis from ISS experiments

Skill requirements:

- Laboratory experience with common DNA/RNA methods
- Technical knowledge/experience with DNA microarray technology, spatial transcriptomics, or similar technologies
- Fluorescent microscopy and/or automated slide scanning systems (e.g. Zeiss, Nikon or Leica software) is a merit
- Image analysis (e.g. ImageJ, Fiji, CellProfiler, Imaris) and moderate programming skills (e.g. Matlab, R or python) is also a merit

Send your application – CV – to jobs@cartana.se

For enquiries and general questions, contact jobs@cartana.se