Dnr: SU-465-0056-26

**Postdoctoral researcher in computational analysis of metabolic regulation of proteome function**

The Department of Molecular Biosciences, The Wenner-Gren Institute (MBW), conducts research on fundamental problems in molecular cell biology, integrative biology, and infection and immunobiology. The department offers a highly international and collaborative environment with access to state-of-the-art technologies and infrastructures, including SciLifeLab. More information: Stockholm University MBW.

**Project description**
Metabolic control of cell nuclei – computational focus

We are seeking a highly motivated postdoctoral researcher with strong computational skills to join the Piazza Lab. The project aims to understand how metabolism regulates chromatin-associated protein function across the proteome.

The Piazza laboratory develops and applies mass spectrometry-based approaches to study protein structure and interactions in native cellular contexts. In this project, you will focus on the computational integration and analysis of multi-omics datasets, including proteomics, genomics, and chromatin profiling data.

You will develop quantitative and predictive models to understand how metabolic states influence protein conformations and chromatin regulation. We offer the opportunity to contribute to method development and to apply these approaches to biologically and medically relevant systems, including cancer and cell state transitions.

The project is highly interdisciplinary and involves close collaboration with experimental scientists and international partners.

**Qualification requirements**
Applicants should hold a PhD (or equivalent) in computational biology, bioinformatics, systems biology, biophysics, or a related field.

**Selection criteria**
The selection among eligible candidates will be based on their scientific excellence and ability to contribute to interdisciplinary research. The following criteria will be considered:

• Strong computational background, including data analysis in Python and/or R
• Experience with large-scale biological datasets (e.g. proteomics, transcriptomics, genomics)
• Interest in quantitative biology and integrative multi-omics approaches
• Experience with statistical modeling, machine learning, or structural biology is an advantage
• Familiarity mass spectrometry data analysis is a plus
• Ability to work independently and collaboratively in an interdisciplinary environment
• Excellent communication skills in English

**About the scholarship**
The position is full-time and based at SciLifeLab Solna.

Stockholm University strives to be a workplace free from discrimination and with equal opportunities for all.

**Contact**
For further information, please contact:
Ilaria Piazza (ilaria.piazza@su.se)

**Application**
Please submit your application through Stockholm University's recruitment system. The application should include:
• CV
• Cover letter describing research interests and motivation
• Contact details of references

Stockholm University contributes to the development of a sustainable democratic society through knowledge, enlightenment and the pursuit of truth.