



THE SAHLGRENKA ACADEMY
INSTITUTE OF MEDICINE

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Announcement - scholarship at postdoctoral level

The Department of Molecular and Clinical Medicine at the Institute of Medicine hereby announces a scholarship at postdoctoral level in Systems Biology of Cardiometabolic Diseases.

Plan for advancement

Subject: Postdoctoral position focusing on systems biology of cardiometabolic diseases.

Background: Cardiometabolic diseases are highly interconnected and share risk factors and underlying molecular mechanisms. This project will investigate these shared and disease-specific mechanisms using a data-driven systems biology approach, integrating large-scale human datasets with molecular and omics data.

Purpose: Please note that the scholarship is established for other reasons than work or studies. The scholarship aims to strengthen the postdoctoral researcher's expertise in systems biology, bioinformatics, multi-omics integration, and computational analysis of cardiometabolic diseases. A particular focus will be the identification of molecular signatures, biomarkers, and potential therapeutic targets across related disease phenotypes.

Method: The researcher will integrate single-cell, transcriptomic, and other omics datasets with large population-based resources. Bioinformatics, network analysis, and machine-learning approaches will be used to identify shared and disease-specific molecular programmes and regulatory mechanisms. The work will be conducted in collaboration with cardiovascular and experimental researchers to facilitate biological interpretation and translation of the findings.

Outcome: The position will provide advanced training in data-driven systems biology and generate new knowledge on molecular mechanisms, biomarkers, and potential therapeutic targets in cardiometabolic disease. It will also provide a strong foundation for the researcher's continued development as an independent researcher in computational and translational cardiovascular medicine.

Period

2026-12-01 – 2028-11-30

Financing

A total of 650,000 SEK will be paid for the whole period.

If you require any further information, please contact Muhammad Arif, muhammad.arif@gu.se, supervisor.

Application

To apply please fill out the form "Application for a scholarship at postdoctoral level" and send it to Muhammad Arif, muhammad.arif@gu.se, supervisor.

Please attach a copy of your PhD certificate with the application. PhD must be completed within three years of the application deadline.

Closing date is 2026-10-30.