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THE SAHLGRENSKA ACADEMY
INSTITUTE OF MEDICINE

Department of Internal Medicine and Clinical Nutrition
Administrator: Raija Saikkonen
Telephone No: +46 0766 183116
E-mail address: raija.saikkonen@gu.se

Announcement - scholarship at the postdoctoral level

The Department of *Internal Medicine and Clinical Nutrition* at the Institute of Medicine hereby announces a scholarship at the postdoctoral level in Skeletal biology.

Plan for advancement
Subject: Skeletal biology
Background: Skeletal disorders, including osteoarthritis, osteoporosis, and growth abnormalities, represent a major burden on affected individuals and healthcare systems. Despite considerable advances in recent years, our understanding of the cellular and molecular mechanisms underlying skeletal development, maintenance, and regeneration remains incomplete. Recent discoveries concerning skeletal stem cells, together with advances in genetic lineage tracing, single-cell technologies, and three-dimensional imaging, have opened new opportunities to investigate these processes. The proposed fellowship will provide the scholar with advanced scientific training in this rapidly developing field.
Purpose: The primary purpose of the fellowship is to support the scholar's scientific development and progression toward independence as a researcher in skeletal biology. The fellowship is intended for advanced postdoctoral training and the acquisition of new scientific and methodological expertise, rather than employment or participation in a formal educational program.
Methods: During the fellowship, the scholar will acquire expertise in genetic lineage tracing and temporally controlled genetic manipulations using transgenic mouse models to investigate skeletal stem cells and their regulation. Training will also include advanced molecular and imaging techniques, such as single-cell RNA sequencing (scRNA-seq), spatial transcriptomics, confocal microscopy, tissue clearing, and three-dimensional light-sheet imaging. Particular emphasis will be placed on integrating these approaches, developing independent experimental strategies, critically evaluating results, and interpreting complex datasets.
Time plan: The training period is accounted for 2 years.
Outcome: The anticipated outcome is the development of a researcher capable of independently formulating scientific questions, designing and executing experiments, and critically interpreting *results*. The training is also expected to result in scientific dissemination, ideally including publication in an international peer-reviewed journal, and to strengthen the scholar's prospects for an independent scientific career.

Period
2027-01-01 – 2028-12-31

Financing
A total of 690 000 SEK will be paid for the whole period.

If you require any further information, please contact Andrei Chagin, andrei.chagin@gu.se , supervisor.

Application
To apply please fill out the form “Application for a scholarship at postdoctoral level” and send it to Andrei Chagin, andrei.chagin@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 2026-12-01.