



på svenska

[Back to the job list](#)



## **Project Researcher in cell biology, inflammatory disease imaging and modelling / Projektforskare i cellbiologi och visualisering av inflammatoriska sjukdomsmodeller, 1.1.2022-31.12.2023**

Please see the announcement in Swedish below

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Åbo Akademi University is an internationally acknowledged research university with an extensive responsibility for providing education in Swedish in Finland. With its international research community and its strong Nordic ties, Åbo Akademi University has an acclaimed and recognized position within research and education both nationally and internationally.

Åbo Akademi University Research Flagship InFLAMES: Innovation Ecosystem based on the Immune System, funded by the Academy of Finland and a Novo Nordisk funded project on modifiers of diabetes, invites applications for a fixed-term project researcher (postdoc) position in the field of pre-clinical molecular and cellular research and imaging of inflammatory processes from 1.1.2022 (or as agreed) to 31.12.2023. The fixed-termed position is full time and the location of work is in Turku.

The InFLAMES Flagship is a joint effort of Åbo Akademi University, University of Turku and the associated ecosystem. It aims at being an internationally recognized, top-level, immunological research and development cluster attracting both researchers and business partners. It will produce break-through knowledge on immunological principles and diseases. The Flagship also aims to provide novel discoveries, which lead to improved diagnosis and treatment of inflammatory disorders. Innovations, internationally recognized scientists, an extensive state-of-the-art research infrastructure and intensive academy-industry interactions form the foundation of the InFLAMES Flagship research.

### DESCRIPTION OF THE POSITION

The group seeks a project researcher to work on in vivo pre-clinical diagnostic imaging techniques (PET/CT) and molecular epithelial biology research in inflammatory diseases in digestive epithelia, within the InFLAMES Flagship and a Novo Nordisk funded project. Intestinal and pancreatic islet

within the INFLAMES Flagship and a novel interdisciplinary project. Intestinal and pancreatic islet epithelial cell integrity is essential in the protection from inflammatory diseases of the gut and in diabetes. Our goal is to test and develop, within a highly collaborative environment with basic scientist and clinicians, molecular in vivo pre-clinical imaging modalities for inflammatory bowel diseases and diabetes using murine disease models, and as well as understand molecular disease pathways with focus on mechanical properties of epithelial cells related to diabetes susceptibility

#### Key Responsibilities:

- Conduct scientific research related to inflammatory and mechanical factors, as well as develop novel diagnostic tools using pre-clinical models, with focus on inflammatory diseases including bowel diseases and/or diabetes within the Flagship's research profile (please see <https://inflames.utu.fi/>)
- Activity in applying for external research funding

The project researcher is required to work a total of 1,612 hours per year. The work tasks will be defined in detail in an annual work plan.

#### QUALIFICATIONS

- PhD in biosciences or other relevant discipline
- Strong communication skills, including written and oral communication in English
- Outstanding potential and established excellence in research
- Applicants are expected to have demonstrated expertise in inflammatory diseases, imaging and/or epithelial biology research and competency in applying central cell and molecular biology methods.
- Strong organizational and collaborative skills

#### Desirable qualifications

- Experience in in vivo imaging, diabetes studies
- International research experience

An appointment will be based on an overall assessment of the applicant's potential for development and competences in relation to the necessary qualities to successfully carry out the tasks for the position.

A trial period applies to new employees.

#### SALARY

The project researcher's salary is based on requirement levels 5-6 for teaching and research personnel in accordance with the University salary system, <https://www.sivista.fi/wp-content/uploads/2020/04/Salary-Scales-010820-and-010621.pdf>. In addition, an individual salary component based on personal work performance is added to the salary.

#### APPLICATION

The application should be submitted electronically in the ÅAU recruitment system ([www.abo.fi/rekrytering](http://www.abo.fi/rekrytering)) no later than 7<sup>th</sup> December 2021 at 12:00 (Finnish time zone). Application instructions can be found here: <https://www.abo.fi/en/instructions-appendices-in-applications-research-and-teaching-staff/>

The application should include the following enclosures (in English):

- A researcher's curriculum vitae composed in compliance with the instructions given by the Finnish National Board in Research Integrity: <https://tenk.fi/en/advice-and-materials/template-researchers-curriculum-vitae>
- A full list of publications

- Personal statement or motivation letter containing a description of your scientific background and research interests, and how they relate to research conducted at the InFLAMES Flagship (max. 2 pages)
- A certificate of a doctoral degree within a relevant field
- Recommendation letter from at least two previous supervisors

#### INFORMATION

Further information about the position may be obtained from Associate Professor Diana Toivola, [diana.toivola@abo.fi](mailto:diana.toivola@abo.fi) (Cell biology at Faculty of Science and Engineering) or HR Specialist Sabina Ringvall, [sabina.ringvall@abo.fi](mailto:sabina.ringvall@abo.fi).

Åbo Akademi University is actively working for equal gender distribution and diversity across all personnel groups.

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Åbo Akademi är ett internationellt framstående forskningsuniversitet med ett brett svenskspråkigt utbildningsansvar i Finland. Med sin speciella nordiska förankring har Åbo Akademi en framstående och erkänd ställning nationellt och internationellt inom forskning och utbildning.

Åbo Akademis flaggskepp InFLAMES: Innovation Ecosystem based on the Immune System, finansierat av Finlands Akademi och ett Novo Nordisk fonden finansierat projekt kring diabetes, söker en tidsbunden projektforskare inom området pre-klinisk molekylär- och cellbiologi samt visualisering av inflammatoriska processer från 1.1.2022 (eller enligt överenskommelse) till 31.12.2023. Den tidsbundna anställningen är heltid och placerad i Åbo.

Flaggskeppet InFLAMES utgör ett samarbete mellan Åbo Akademi, Åbo universitet och det ekosystem som är anknutet till projektet. Målsättningen är att InFLAMES ska utgöra ett internationellt erkänt kluster på toppnivå inom immunologisk forskning och utveckling, som attraherar både forskare och partners från näringslivet. Projektet ska producera banbrytande kunskap om immunologiska principer och sjukdomar. En av flaggskeppets målsättningar är också att göra nya upptäckter som kan leda till förbättrad diagnostik och behandling av inflammatoriska sjukdomar. Innovationer, internationellt erkända forskare, en forskningsinfrastruktur av toppkvalitet och en intensiv samverkan mellan universitet och näringsliv utgör grunden för forskningen inom flaggskeppet InFLAMES.

ARBETSUPPGIFTER OCH KOMPETENS - se närmare beskrivning på engelska

#### LÖN OCH VILLKOR

Lönen för en projektforskare följer kravnivå 5-6 för undervisande och forskande personal i universitetens kollektivavtal, <https://www.sivista.fi/wp-content/uploads/2020/09/L%C3%B6netabeller-010820-och-010621.pdf>. Därutöver tillkommer en på prestationer baserad individuell lönedel.

Projektforskare omfattas av systemet med helhetsarbetstid om 1612 timmar per år. Arbetsuppgifterna definieras närmare i en årlig arbetsplan.

Vid nyanställning tillämpas provotid.

#### ANSÖKAN

Ansökan inlämnas i det elektroniska ansökningsformuläret ([www.abo.fi/rekrytering](http://www.abo.fi/rekrytering)) senast 7.12.2021 kl. 12:00 (finsk tid). Se närmare anvisningar för ansökan:

<https://www.abo.fi/anvisningar-for-sokande-till-undervisnings-och-forskningsuppdrag/>

Till ansökan fogas följande bilagor på engelska:

- CV, enligt modell av Forskningsetiska delegationen i Finland, TENK:  
<https://tenk.fi/sv/anvisningar-och-material/modell-till-meritforteckning-forskare>
- Kompletta publikationsförteckning
- Ansökningsbrev med en beskrivning av din vetenskapliga bakgrund och dina forskningsintressen samt hur de relaterar till forskningen inom flaggskeppet InFLAMES (max 2 sidor)
- Intyg över doktorsexamen i ett relevant område
- Rekommendationsbrev från minst två tidigare handledare eller chefer

#### INFORMATION

För ytterligare information om befattningen kontakta biträdande professor Diana Toivola, [diana.toivola@abo.fi](mailto:diana.toivola@abo.fi) (cellbiologi vid fakulteten för naturvetenskaper och teknik) eller gällande rekryteringsprocessen HR-specialist Sabina Ringvall, [sabina.ringvall@abo.fi](mailto:sabina.ringvall@abo.fi).

Åbo Akademi arbetar aktivt för en jämn könsfördelning och en ökad mångfald i alla personalgrupper.

Application period starts: 2021-11-16 12:00

Application period ends: 2021-12-07 12:00

LEAVE AN APPLICATION

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