



GreenLab-Villum Fellowships on “Industrial sustainability”

Interdisciplinary and inter-sectoral research collaboration and innovative ideas are prerequisites for tackling societal challenges. Strengthening global collaboration among the research communities will have a significant positive impact in the wide-scale development towards green and global solutions for our societies. The GreenLab-VILLUM theme-based fellowships seek to enhance interdisciplinary and global collaboration by engaging an interdisciplinary and international group of excellent researchers in theme-based research projects within the scope of GreenLab. In a joint partnership GreenLab, Villum foundation, DTU and Aarhus University offers up to five researchers the opportunity to engage in a thematic group fellowship. The fellows will have AIAS as their daily base with the possibility of using the facilities not just at Aarhus University, but also at GreenLab and other Danish universities.

The thematic mission. The focus of the fellowship is identifying new pathways for building a truly sustainable industrial sector. This requires reshaping industrial networks as regenerative systems in the form of eco-industrial clusters with the ability to e.g., preserve and upgrade material streams, decouple production from greenhouse gas emissions, adapt to systemic transitions and unforeseen disruptions, as well as place human well-being as a focal point of the acceptable impact of industry within the planetary boundaries. There is a need for a framework of milestones by which to evaluate industrial sustainability, and a roadmap on ways to achieve this. This thematic mission is a challenge that brings together scientific, technological, and social research to holistically assess the societal, environmental, and economic impacts of eco-industrial clusters with integrated industrial symbiosis and advanced data-driven value stream optimization. The challenge furthermore creates the interdisciplinary knowledge and innovative solutions for addressing the gaps from today’s industrial status-quo to a future sustainable production industry.

Specifically, the purpose of the theme-based fellowships is to engage an interdisciplinary and international group of excellent researchers in research projects and themes related to understanding industrial sustainability and how to mitigate the sustainability gaps from current industrial production. Suggested fellowship projects can draw on theories and methods from all academic fields within the theme of assessing and/or improving the performance of eco-industrial clusters in terms of their sustainability, circularity, or resilience.

Applications are individual, but the selected fellows - up to 5 participants - will work together with each other and with researchers at GreenLab and relevant research centres at the Danish Universities during the 22 months fellowship. Moreover, fellows will receive training in interdisciplinary dialogue and are expected to contribute, via their own research agenda, to existing research agendas on industrial sustainability. The fellowship programme combines GreenLab and the Danish Universities' dedication to research on the challenges related to industrial sustainability with the proven experience of Aarhus Institute of Advanced Studies in:

- attracting and retaining outstanding research talents
- promoting excellence in research and innovation
- developing research based dialogue across different fields
- developing and expanding new research insights and promoting interdisciplinarity, leading to research-based solutions of societal challenges

Duration: Fellowships are 22 months from 1 September 2023 – 31 June 2025

Salary: Fellowships are with full salary at relevant level (postdoc/ associate professor/ professor, defined by Danish standard collective agreement). For successful applicants who are already employed at a Danish university, terms of the fellowship is contingent of a negotiation with the relevant head of department.

Fellows' travel from international destination to Aarhus (one return ticket) will be covered up to a maximum of 2,000 Euro.

Eligibility: The call is open for researchers of any nationality and from all disciplines with research profiles within the thematic scope of the call. The target group of the programme is talented researchers at all career stages with minimum a PhD at the time of the application deadline.

See '[Guide for Applicants](#)' for details on the application and selection process.

Villum-GreenLab fellowships at AIAS, AU

Fellows selected for employment at AIAS, will have their office space at AIAS, Aarhus University. All fellows will also have access to the GreenLab facilities and the Innovation center located in Skive. In addition collaborations can be extended to other relevant Danish universities. AIAS offers optimal office facilities, an international and interdisciplinary research community with joint social and academic activities. AIAS aims at breaking down disciplinary and national boundaries, and provides a framework and setting for dialogue and discussions that will challenge and expand conventional thinking and contribute to collaborative research. AIAS is both international and interdisciplinary at the outset, and the fellows will therefore be an integral part of a wider, global research community.

In order to ensure the collegial and collaborative approach among the group, the fellowship will begin with a joint workshop hosted at AIAS/GreenLab or a remote location. Spread out over the 22 months, a number of joint research activities will be organized depending on the need and interest of the involved researchers. The fellowship will end in June 2025 with a joint conference where key findings and ideas for further collaborations and research projects will be presented to relevant stakeholders and interested participants.