
CALL FOR APPLICATIONS

Deadline: 16 May 2023

GreenLab, VILLUM Fonden, DTU & Aarhus Institute of Advanced Studies (AIAS)



GreenLab, VILLUM Fonden, DTU and Aarhus Institute of Advanced Studies (AIAS) are pleased to announce up to five joint theme-based fellowships of a duration of 22 months from September 2023 to July 2025.

Why apply for a GreenLab-VILLUM Fellowship

Interdisciplinary research collaboration and innovative ideas are prerequisites for tackling joint societal challenges. Strengthening global cooperation among relevant research communities will have a significant impact on developing green and sustainable 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](#).

The thematic mission of the call

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 five candidates - will work together with each other and with researchers at GreenLab and affiliated partners 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 affiliated partners at 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

AIAS will provide office space ensuring that the research fellows are immersed in a strong academic environment and have a location for interdisciplinary interactions. Furthermore, the fellows will have multiple interactions with researchers and affiliated partners at GreenLab and will therefore also have office space available at GreenLab.

AIAS provides a unique interdisciplinary setting, which offers the researchers the opportunity to engage in interdisciplinary research, to broaden their research profile and to collaborate with an inspiring international and multidisciplinary community at AIAS. Applicants for a fellowship should bring intellectual curiosity and readiness to engage in discussions beyond their own disciplinary boundaries.

A non-exhaustive list of examples of research topics for fellows under the thematic mission includes:

- Digital solutions for control and optimization of hybrid energy to industrial production and storage, as well as new market mechanisms
- New models for Socioeconomic value, new capitalism, circular economy, and equilibrium models for circular industrial cluster design
- Economic modelling of integrated energy infrastructure in cluster development

Who can apply?

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 application deadline.

AIAS and Aarhus University strive to create not only a multidisciplinary, but also an inclusive academic environment, and applicants are welcome regardless of race, religion, colour, national origin, sex, gender, age and disability.

Applicants apply individually, but the selected candidates are expected to work closely together as a group during the fellowship. Furthermore, relevant researchers from GreenLab's research team and relevant research centres from all Danish Universities, will be affiliated with the selected group of fellows.

The fellowship includes

All fellows will have a salary based on seniority (employment conditions and wages are regulated through collective agreements), relocation assistance and relocation costs such as transportation and visa permits, if applicable. Fellows will have an office space available at AIAS as well as at GreenLab, the opportunity to participate in the infrastructure of the AIAS Institute, in training activities, and in conferences and workshops at AIAS and at the relevant research environments at AU.

How to apply

Applications must be submitted online via: GrantOne.

Read more about the detailed application requirements, how to use the online application system and the selection process in the 'Guide for Applicants'.

Application process

After the application deadline, applications will be subject to an eligibility screening. A review and selection panel and AIAS management, will evaluate each eligible proposal and make the final selection. See 'Guide for Applicants' for details for selection criteria.

When to apply

- Deadline for application: 16 May 2023 at 12.00 (noon) CET.

Timeline of application process

- Opening of call: April 2023.
- Deadline for applications: 16 May 2023 at 12.00 (noon) CET.
- Evaluation and selection period: May 2023.
- Applicants will receive answers: Ultimo May/ beginning of June 2023.
- Fellowships begin; 1 September 2023.

Formalities

- Regarding the recruitment process, AIAS refers to the Danish Ministerial Order on the appointment of academic staff at universities under the Danish Ministry of Higher Education and Science.
- Appointment and salary are subject to agreement between the Ministry of Finance and The Danish Confederation of Professional Associations (AC).
- For further information on qualification requirements and job descriptions, please refer to [Memorandum on job structure for academic staff at Danish Universities](#).

For more information about the process, guidelines, or the application system, please contact Programme Manager, Helle Villekold at helle@aias.au.dk

About DTU and VILLUM FONDEN grant

Founded in 1829 with the mission of creating value for the benefit of society, DTU is an international elite technical university where education, scientific advice, and innovation rest on a solid foundation of world-class research. In 2021, VILLUM FONDEN granted DKK 20M for the purpose of establishing and strengthening the GreenLab Skive Research Platform in collaboration with DTU. The grant supports research in the gaps and challenges in the green transition of industry and is co-financing the fellowship program under this thematic mission. **Read more on:** www.greenlab.dk/rd, www.dtu.dk, and veluxfoundations.dk

About AIAS

The mission of the Aarhus Institute of Advanced Studies (AIAS) is to advance highest quality research at Aarhus University (AU) by attracting talented, highly qualified fellows worldwide and within all disciplines. Fellows are proved ideal opportunities to further develop their research in short to long fellowship periods by ensuring fellows' participation in various kinds of collaboration and exchange with researchers, research groups and advanced students at AU and abroad. **Read more on:** www.aias.au.dk

About GreenLab

GreenLab is a green and circular energy park, a technology enabler, and a national research facility. GreenLab is specialized in accelerating research and technology, and the concept transform the way green energy is produced, converted, stored and applied. GreenLabs test theories in practice and search for viable green solutions to the world's biggest challenges. **Read more on:** <https://www.greenlab.dk>