

2-year postdoc position - ArcSolution

The Arctic is experiencing rapid changes due to climate change and pollution from local and distant sources, impacting human life, wildlife, and ecosystems. ArcSolution takes a holistic “One Health” approach to address these challenges, integrating local and indigenous knowledge with scientific research across four Arctic locations: Northern Finland, Svalbard, Northern Norway, and Greenland.

The consortium behind ArcSolution is a highly qualified and diverse team, consisting of 14 partners from 8 different nations, from a range of geographic regions, including the Arctic and other key areas. This “dream team” brings together esteemed researchers with proven expertise and a strong history of collaboration. Under experienced and dynamic leadership, the partners were selected for their scientific and practical experience, as well as their passion and commitment to the Arctic’s future. Their dedication and enthusiasm will drive ArcSolution to successful outcomes, delivering impactful results for the region and beyond.

The present postdoc will work with:

- Mass balance of contaminant influx from harvest of marine mammals into communities in Greenland and other Arctic nations
- Assess concentrations in key species providing the data foundation for adverse health effect risk assessment
- Assess hot spots in the Arctic of chemicals in local communities and exposure assessments
- Assess food web dynamics in relation to climate change and infectious diseases and biodiversity (3PC)
- Applications are invited for a 2-year and 3½ months position in the above-mentioned field of research at the Department of Ecoscience, Aarhus University, Denmark

Expected start date and duration of employment

This is a 2-year and 3½ months position starting 15 April 2026.

Job description

The successful candidate will join a strong research team that has gathered detailed data on the effects of contaminants on marine mammals over the last three decades, combining a variety of methods including PBPK modelling, TWI evaluations, mass balances, risk assessments and modelling of food web dynamics and disease screening. This position provides a unique opportunity to contribute to our understanding of how multiple stressors including climate change, contaminants and diseases affect ocean health in the Arctic among other marine mammals and blue food and local communities’ One Health (3PC). The postdoc will be expected to contribute actively to the department’s advisory activities for the Danish Ministry of Environment, related to effects of Arctic contaminants. The postdoc is also expected to co-supervise graduate students, and to help secure funding for new research projects.

Qualifications:

We are seeking a highly motivated candidate with the following qualifications:

- A PhD degree within biology, environmental chemistry, chemistry, or similar
- Experience with writing scientific publications
- Experience in working with contaminants like PFAS, PCBs and mercury, fatty acids, stable isotopes and modelling in R
- A talent for working with large data sets to model large-scale changes preferably being able to use ML
- An ability to work in large consortia projects but also individually and in small teams, and be self-motivating.
- Fluency in English (speaking and writing)

Application Deadline:
01 December 2025

Faculty:
Faculty of Technical
Sciences

Institute/Faculty:
Department of
Ecoscience

Academic contact person:
Christian Sonne
Professor
cs@ecos.au.dk
+4530783172
+4587158704

Vacant positions:
1

Hours per week:
37

Number of months:
28

Expected date of accession:
15/04/2026

- Good communication skills, both written and oral, and an interest in spending a considerable amount of time on data crunching, scientific writing, coordinating and reporting.

In addition it will be considered an advantage if you have:

- been working on Arctic contaminants.
- been on field work in Greenland or other Arctic regions.
- experience with analytical instruments like ICP-MS, MC-ICP-MS and/or GC-IRMS
- initiated the development of a research network

Your application shall include:

- Cover letter explaining your motivation, research interests, skills you bring to the position (max. 2 pages)
- Project description including your ideas for the development of this postdoc project (1-2 pages)
- CV
- Diploma for Bachelor's, Master's and PhD degree
- Transcript of grades/academic record Bachelor's, Master's and PhD degrees.
- Explanation of the grading system for foreign education (Diploma Supplement if available)
- Documentation of English proficiency
- Contact information for 2-3 references
- PhD thesis, and any other relevant academic works

All documentation to be considered must be in English or Scandinavian language. Diplomas and transcripts must also be submitted in the original language, if not in English or Scandinavian. If English proficiency is not documented in the application, it must be documented before starting in the position.

Who we are

The Department of Ecoscience is engaged in research programs and advisory work covering the major biological subdisciplines. We conduct world-class research in the areas of aquatic biology and ecology, Arctic environment and ecosystems, biodiversity, conservation biology and wildlife management. The Department currently employs approximately 275 academic and technical staff, as well as many PhD students.

The successful candidate will work in a dynamic and internationally engaged scientific environment at the Section for Marine Mammal Research (for more information see: [AU Ecoscience - Marine Mammal Research](#))

The department is, and wishes to continue to be, an active, dynamic and inspiring workplace with exciting challenges, enthusiastic colleagues and academic opportunities for development. The department wishes to support employees in creating a good balance between their work and home lives and to maintain and attract talented and committed staff, where freedom, creativity and respect for the long-term perspective are core values. For more information on the Department see: <http://ecos.au.dk/en/>.

What we offer

The department offers:

- a well-developed research infrastructure, laboratories and access to shared equipment
- an exciting interdisciplinary environment with many national, international and industrial collaborators
- a research climate encouraging lively, open and critical discussion within and across different fields of research

a workplace characterised by professionalism, equality and a healthy work-life balance.

Place of work and area of employment

The place of work is Frederiksborgvej 399, DK-4000, Roskilde, Denmark and the area of employment is Aarhus University with related departments.

Contact information

For further information, please contact Professor Christian Sonne +45 30 78 31 72, cs@ecos.au.dk, Professor Rune Dietz, +45 21 25 40 35, rdi@ecos.au.dk and/or Senior Researcher Jens Søndergaard, +45 23 22 71 03, js@ecos.au.dk

Application procedure

Shortlisting is used. This means that after the deadline for applications – and with the assistance from the assessment committee chairman, and the appointment committee if necessary, – the head of department selects the candidates to be evaluated. All applicants will be notified whether or not their applications have been sent to an expert assessment committee for evaluation. The selected applicants will be informed about the composition of the committee, and each applicant is given the opportunity to comment on the part of the assessment that concerns him/her self. Once the recruitment process is completed a final letter of rejection is sent to the deselected applicants.

Letter of reference

If you want a referee to upload a letter of reference on your behalf, please state the referee's contact information when you submit your application. We strongly recommend that you make an agreement with the person in question before you enter the referee's contact information, and that you ensure that the referee has enough time to write the letter of reference before the application deadline.

Unfortunately, it is not possible to ensure that letters of reference received after the application deadline will be taken into consideration.

If you wish to add a referee **after** you have submitted your application, you must send this person's details (name, job title, place of work, and email address) as well as the name of the position you have applied for to: HR.Nattech@au.dk

Formalities and salary range

Technical Sciences refers to the [Ministerial Order on the Appointment of Academic Staff at Danish Universities under the Danish Ministry of Science, Technology and Innovation](#).

The application must be in English and include a curriculum vitae, degree certificate, a complete list of publications, a statement of future research plans and information about research activities, teaching portfolio and verified information on previous teaching experience (if any). Guidelines for applicants can be found [here](#).

Appointment shall be in accordance with the collective labour agreement between the Danish Ministry of Taxation and the Danish Confederation of Professional Associations. Further information on qualification requirements and job content may be found in the [Memorandum on Job Structure for Academic Staff at Danish Universities](#).

Salary depends on seniority as agreed between the Danish Ministry of Taxation and the Confederation of Professional Associations.

Aarhus University's ambition is to be an attractive and inspiring workplace for all and to foster a culture in which each individual has opportunities to thrive, achieve and develop. We view equality and diversity as assets, and we welcome all applicants.

Research activities will be evaluated in relation to actual research time. Thus, we encourage applicants to specify periods of leave without research activities, in order to be able to subtract these periods from the span of the scientific career during the evaluation of scientific productivity.

Aarhus University offers a broad variety of services for international researchers and accompanying families, including relocation service and career counselling to expat partners. Read more [here](#). Please find more information about entering and working in Denmark [here](#).

Aarhus University also offers a Junior Researcher Development Programme targeted at career development for postdocs at AU. You can read more about it [here](#).

The application must be submitted via Aarhus University's recruitment system, which can be accessed under the job advertisement on Aarhus University's website.

Aarhus University

Aarhus University is an academically diverse and research-intensive university with a strong commitment to high-quality research and education and the development of society nationally and globally. The university offers an inspiring research and teaching environment to its 38,000 students (FTEs) and 8,300 employees, and has an annual revenues of EUR 935 million. Learn more at www.international.au.dk/