Research Software Engineer Position in CodeRefinery and AI Applications for Research and Education

Application Deadline:
31 May 2025

Faculty:
Faculty of Arts

Institute/Faculty:
School of Culture and Society

Academic contact person:
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Vacant positions:
1

Hours per week:
37

Number of months:
36

Expected date of accession:
15/06/2025

The Center for Humanities Computing (CHC) at the School of Culture and Society, Aarhus University, invites applications for a Research Software Engineer (RSE) full-time position to support CodeRefinery and the development of AI applications for research and education at the university level. If you enjoy bridging software engineering and research in a dynamic work environment that values your need for focused concentration, this position is ideal for you. The position is jointly hosted by the Center for Humanities Computing and the Danish e-Infrastructure Cooperation (DeiC), reflecting a collaborative effort involving multiple universities and e-infrastructure providers across Scandinavia. This is a fixed-term position for three years with the possibility of extension based on funding.

CodeRefinery is a community-driven Scandinavian project focused on providing training and resources to academic researchers in computing and data management. It aims to enhance research computing skills, emphasizing reusability, reproducibility, and openness. CodeRefinery offers in-person workshops, free online courses and materials that cover essential tools often overlooked in traditional academic education. CHC and DeiC represent Denmark in the CodeRefienry project.

Starting date: June 15, 2025 or as soon thereafter.

Place of Work

The successful candidate will primarily work within the CHC (Jens Chr. Skous Vej 4 Building 1483, 8000 Aarhus C), with additional collaboration and activities coordinated by DeiC (Universitetsbyen 81, Building 1872, 8000 Aarhus C) - desks are available both at CHC and DeIC, the offices are in walking distance. The position offers flexible working arrangements, including remote and hybrid options, promoting work-life balance. Regular participation in on-site activities and community-building events is expected to foster collaboration and knowledge sharing.

Key Responsibilities

1. CodeRefinery Activities:

- Develop, maintain, and deliver training materials for software best practices.
- Organize and facilitate workshops, both online and in-person, promoting reproducible research software development.
- Engage actively in community-building activities to sustain and grow the CodeRefinery community.

2. AI Application Development:

- Design, implement, and optimize AI-driven software tools supporting research and education initiatives.
- Integrate state-of-the-art AI technologies into existing research infrastructure.
- Ensure robust documentation, testing, version control, and adherence to best practices in software engineering.

Qualifications

- Strong background (BSc or higher preferred) in science, engineering, computing, or a related field.
- Demonstrable experience in software engineering best practices, including version control (e.g., Git), software testing, documentation, and continuous integration.
- Proficiency in one or more programming languages (Python, Java, C/C++).
- Experience developing or implementing AI applications, particularly using machine learning frameworks (e.g., PyTorch, TensorFlow, Hugging Face).
- Familiarity with high-performance computing environments is beneficial.
- Strong communication skills, with the ability to engage with interdisciplinary

research teams.

- Interest or prior experience in educational contexts or facilitating training/workshops is advantageous.

The successful candidate will contribute significantly to advancing responsible AI by ensuring that research software aligns with societal values, user needs, and ethical considerations.

We strongly encourage applications from underrepresented groups in computing and AI. Aarhus University is committed to an inclusive, diverse, and supportive work environment.

Applications must include a cover letter highlighting relevant experience, a CV, and optionally examples of previous software development or AI projects.

Who we are

CHC is a research and development unit at Aarhus University that collaborates with researchers from arts and humanities (Faculty of Arts) at Aarhus University. Our offices are located in Nobel Parken, 8000 Aarhus C and holds about 30 employees. CHC values a healthy work-life-balance and offers work conditions where flexible hours and some amount of remote work is possible. We value the effect of meeting up in the hallways or at the coffee machine and having serendipitous conversations with colleagues. We are a mixed group of nationalities at CHC, and as a consequence we predominantly speak English at the office and at meetings to be inclusive of our international colleagues. CHC represents Aarhus University in the DeiC Interactive HPC Consortium that operates DeiC Interactive HPC. The other members of the consortium are the eScience Center (SDU) and CLAAUDIA (Aalborg University). DeiC Interactive HPC's computing resources are located at SDU and Aalborg University while Aarhus University (CHC) is responsible for the advanced services offered to researchers using DeiC Interactive HPC.

The Danish e-infrastructure Cooperation (DeiC) coordinates Danish digital infrastructure as an umbrella for the eight Danish universities to ensure delivery of computing, storage and network infrastructure to Danish research, teaching and innovation.

Contact information

Kristoffer Nielbo (kln@cas.au.dk) or Head of School Secretariat Jesper Sølund (jesh@cas.au.dk)

Application deadline: May 31

Salary and terms of employment

In accordance with the current collective agreement between the Ministry of Taxation and the Danish Confederation of Professional Associations (Akademikerne)

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.

Faculty of Arts

The Faculty of Arts is one of five main academic areas at Aarhus University.

The faculty contributes to Aarhus University's research, talent development, knowledge exchange and degree programmes.

With its 700 academic staff members, 200 PhD students, 9,000 BA and MA students, and 1,500 students following continuing/further education programmes, the faculty constitutes a strong and diverse research and teaching environment.

The Faculty of Arts consists of the School of Communication and Culture, the School of Culture and Society and the Danish School of Education. Each of these units has strong academic environments and forms the basis for interdisciplinary research and education.

The faculty's academic environments and degree programmes engage in international collaboration and share the common goal of contributing to the development of knowledge, welfare and culture in interaction with society.

Read more at arts.au.dk/en

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/