

Postdoc within Center for Polariton-driven light-matter  
interactions (POLIMA)  
University of Southern Denmark

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Posted May 5, 2025, set to expire Jun. 15, 2025

**Job Title** Postdoc within Center for Polariton-driven light-matter interactions (POLIMA)  
**Department** Center for Polariton-driven Light-Matter Interactions (POLIMA), The Mads Clausen Institute  
<https://www.sdu.dk/en/forskning/polima>  
**Institution** University of Southern Denmark  
Odense, , Denmark

**Date Posted** May 5, 2025

**Application Deadline** Jun. 15, 2025

**Position Start Date** Oct. 1, 2025

**Job Categories** Post-Doc

**Academic Field(s)** Physics - General

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**Job Description**

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**Center for Polariton-driven Light-Matter Interactions (POLIMA) at The Mads Clausen Institute at the University of Southern Denmark looks for a highly motivated researcher willing to fill an experimental post-doc position in Physics in the area of quantum optoelectronics and 2D materials**

The position is available from 1 October 2025 or as soon as possible thereafter.

The successful candidate will develop experimental research performing magneto-optical spectroscopy combined with electronic transport to investigate light-matter interactions in 2D materials. Our goal is to create new phases of matter through the confinement of charges and photons in reduced dimensions.

We welcome candidates with experience in optical spectroscopy, fabrication of van der Waals heterostructures, electronic transport, and near-field optics.

POLIMA is a Center of Excellence funded by the Danish National Research Foundation (DNRF) for initially 6 years (2023-28). Professor N. Asger Mortensen is the head of POLIMA, which currently consists of two Associate Professors, two Assistant Professors, a Lab Manager, a Center Administrator, and app 10-15 PhD students, postdocs and visiting scientists. Several POLIMA researchers have attracted prestigious personal grants e.g. VILLUM Investigator, Sapere Aude and Marie Skłodowska-Curie Fellowships. Read more on [POLIMAs website](#).

We offer a competitive and highly collaborative research environment with strong interconnection between experimental and theoretical physics. We provide a large network of collaborators to develop ideas and new projects. Excellent experimental research infrastructure which allows us to remain flexible to emerging trends in quantum technology.

We offer:

- A postdoc position in an ambitious and supportive, international research environment
- Access to state-of-the-art equipment, facilities, and infrastructure
- A competitive salary and social benefits (e.g. health coverage, parental leave, social security etc.) (<https://www.sdu.dk/en/om-sdu/international-staff/getting-settled>)

[POLIMA](#) is located at the [University of Southern Denmark](#) in Odense – 1 hour 15 minutes by train from Copenhagen Airport. University of Southern Denmark offers dedicated assistance and support with

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various practical, social, and legal aspects (housing, visa, administration, tax etc.), especially for international candidates through our international staff office (ISO) and the administrative staff at POLIMA.

For further information about the positions and the research center, contact Assistant Professor Nicolas Ubrig ([ubrig@mci.sdu.dk](mailto:ubrig@mci.sdu.dk)).

If you experience technical problems, please contact [hcm-support@sdu.dk](mailto:hcm-support@sdu.dk).

### Application procedure

Applicants are advised to read the [SDU information on how to apply](#).

Assessment of the candidates is based on the application material, and an application must include:

- Motivated application.
- Curriculum Vitae.
- Master's and PhD degree certificates or equivalent (copy of original/official English translation).
- Complete list of publications.
- Publications most relevant to the position.
- Summary and documentation of experience in teaching, if relevant to the position.
- A research statement may be included.
- References/reference letters may also be included.
- A statement/documentation of other qualifications relevant to the position may also be included.

### UPLOAD GUIDE:

Motivated application shall be uploaded as 'Cover letter' (max. 5 MB), Curriculum Vitae shall be uploaded as 'Resume' (max 5 MB). All other documents shall be uploaded as 'Miscellaneous documents' (max 10 files of max 50 MB per file).

All documents must be in English and PDF format. CPR number (civil registration no.) must be crossed out. All PDF-files must be unlocked and allow binding and may not be password protected.

**The application deadline is 15 June at 11.59 PM/23.59 (CET/CEST)**

### Assessment and selection process

Applications will be assessed by an assessment committee. Shortlisting may be applied, and only shortlisted candidates will receive a written assessment. [Read about shortlisting at SDU](#). Interviews

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and tests may be part of the overall evaluation.

Read about the [Assessment and selection process](#).

### Conditions of employment

Appointment as postdoc is temporary for an initial 2-year period, and the preferred start date is from 1 October 2025.

Employment as a postdoc requires scientific qualifications at PhD level at the time of employment. Employment will be in accordance with the collective agreement between the Ministry of Finance and the Danish Confederation of Professional Associations for academics in the state with the associated circular on the protocol for the job structure for academic staff at Danish universities and the provisions for postdoc as described herein. [Further information on salary and taxation](#). The person employed in the position may, based on a specific individual managerial evaluation, be exempted from time registration, also known as a “self-organizer”.

The University of Southern Denmark wishes our staff to reflect the surrounding community and therefore encourages everyone, regardless of personal background, to apply for the position. SDU conducts research in critical technologies, which, due to the risk of unwanted knowledge transfer, are subject to a number of security measures. Therefore, based on information from open sources, background checks may be conducted on candidates for the position.

[Further information](#) for international applicants about entering and working in Denmark. You may also visit [WorkinDenmark](#) for additional information.

[Further information](#) about The Faculty of Engineering.

## [Apply](#)

### About Us

The University of Southern Denmark was established to create value for and with society. Whether our contributions come in the form of excellent research, innovative solutions, education or learning, we must make a positive difference to society and contribute to a sustainable future. We do this by cultivating talents and creating the best environments for research and learning. It is therefore crucial that SDU retains, develops and recruits talent. At the same time, we need to ensure consistently high quality in all our activities – and we can only do that with the right people. The University’s researchers,

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lecturers, students, managers and technical/administrative staff are the foundation of our success.

### Contact Information

Please reference Academickeys in your cover letter when  
applying for or inquiring about this job announcement.

**Contact**      Nicolas Ubrig  
Center for Polariton-driven Light-Matter Interactions  
(POLIMA), the Mads Clausen Institute  
University of Southern Denmark  
Campusvej 55  
Odense 5230  
Denmark

**Contact E-mail**      [ubrig@mci.sdu.dk](mailto:ubrig@mci.sdu.dk)