



UNIVERSITY
OF COLOGNE

Faculty of Mathematics and Natural Sciences

Senior researcher (f/m/x)

Optical Condensed Matter Science Group / II. Physical Institute



We are one of the largest and oldest universities in Europe and one of the most important employers in our region. Our broad range of subjects, the dynamic development of our main research areas and our central location in Cologne make us attractive for students and researchers from around the world. We offer a wide range of career opportunities in science, technology, and administration.

The optical condensed matter physics group at the University of Cologne (<http://loosdrecht.ph2.uni-koeln.de/>) focuses on magnetism and non-equilibrium dynamics in quantum materials, and actively collaborates with other experimental and theoretical groups within the CRC 1238 "Control and Dynamics of Quantum Materials" and the TIDE graduate school.

YOUR TASKS

- » The successful candidate will develop their own research program with a focus on exciton physics, charge separation and transport, and energy transport in organic materials. They will collaborate in the TIDE graduate school, and be involved in the further development, operation, and maintenance of ultrafast laser based experiments in the ultrafast optical spectroscopy group of Prof. Paul van Loosdrecht at the University of Cologne. The successful candidate will contribute to the teaching within TIDE and the II. Institute of Physics.

YOUR PROFILE

You are an independent, early stage researcher and a strong team player with

- » a PhD degree in physics or physical chemistry
- » professional experience with advanced ultrafast spectroscopy and lasers
- » a strong interest in condensed matter physics and pi-conjugated systems
- » excellent written and oral communications skills

WE OFFER

- » Excellent research infrastructure, including state of the art ultrafast experiments
- » A diverse working environment with equal opportunities
- » Support in balancing work and family life
- » Flexible working time models
- » Extensive advanced training opportunities
- » Occupational health management offers

The University of Cologne promotes equal opportunities and diversity. Women will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from all suitable candidates regardless of their gender, nationality, ethnic and social origin, religion, disability, age, sexual orientation and identity.

The position is available from 1 November 2025 on a full-time basis (39,83 hours per week). The position is to be filled for a fixed term until 30 October 2028. If the applicant meets the relevant wage requirements and personal qualifications, the salary will be based on remuneration group 13 TV-L of the pay scale for the German public sector.

Please apply online with proof of the required qualifications (letter of motivation, CV, list of publications, copies of certificates) without a photo under: <https://jobportal.uni-koeln.de>. The reference number is Wiss2508-xx. The application deadline is 31 August 2025.

For further inquiries, please contact Professor Paul van Loosdrecht (pvl@ph2.uni-koeln.de) and take a look at our [FAQs](#).