

Postdoc (f/m/d) in nano-optics and photonics

Humboldt Centre for Nano- and Biophotonics

The University of Cologne is one of the largest and most research-intensive universities in Germany, offering a wide range of subjects. With its six faculties and its interfaculty centres, it offers a broad spectrum of scientific disciplines and internationally outstanding profile areas, supported by the administration with its services.

The Biointegrated Photonics laboratory of Jun.-Prof. Dr. Marcel Schubert is specialising in the development and application of nanoscopic optical devices into living cells and organisms for biomedical applications. It is part of the newly established Humboldt Centre for Nano- and Biophotonics. The centre provides state-of-the-art optics labs, a newly built clean-room, as well as in-house cell culture and nanofabrication facilities. The interdisciplinary research benefits from the high-profile biomedical research environment established at the University of Cologne, including the Cluster of Excellence - Cellular Stress Responses in Aging-Associated Diseases (CECAD), and the Centre for Molecular Medicine Cologne (CMMC).

Within the recently started ERC project "Hyperion" you will become part of a team that develops a novel nano-photonics platform for intracellular sensing.

YOUR TASKS

- » The project will explore new concepts of nanoscopic photonic sensors.
- » Preparation of scientific publications.
- » Presentation of the results at national and international conferences, workshops and project meetings.
- » Contribute to teaching and supervision of students.

YOUR PROFILE

- » PhD degree in physics, photonics, nanotechnology, optical engineering (or equivalent).
- » Strong background in either nanofabrication and nano-optics or single molecule microscopy/spectroscopy.
- » Experience with optical simulation software (FEM, FDTD)
- » Interest in interdisciplinary science.
- » Good communication and English language skills

WE OFFER YOU

- » an enthusiastic research team with passion for curiosity-driven science
- » an exciting, challenging, and interdisciplinary research project
- » a diverse and fair working environment
- » support in reconciling work and family life
- » extensive advanced training opportunities
- » occupational health management offers
- » local transport ticket at a discount for UoC employees

The position is available from 01.03.2023 on a full-time basis (39,83 hours per week). It is limited for 2 years, an extension for another two years is possible. If the applicant meets the relevant wage requirements and personal qualifications, the salary is based on remuneration group 13 TV-L of the pay scale for the German public sector.

The University of Cologne is committed to equal opportunities and diversity. Women are especially encouraged to apply and will be considered preferentially in accordance with the Equal Opportunities Act of North Rhine-Westphalia (Landesgleichstellungsgesetz – LGG NRW). We also expressly welcome applications from people with disabilities / special needs or of equal status.

Please apply online at: <https://jobportal.uni-koeln.de> with proof of the sought qualifications. The reference number is Wiss2209-05."

The application deadline is 30.11.2022.

If you have any questions, please contact

Jun. - Prof. Dr. Marcel Schubert (marcel.schubert@uni-koeln.de).