



MAX-PLANCK-INSTITUT
für die Physik des Lichts

The Max Planck Institute for the Science of Light research covers a wide range of topics, including nonlinear optics, quantum optics, nanophotonics, photonic crystal fibres, optomechanics, quantum technologies, biophysics, and links between physics and medicine.

Post-Doc Position (m/f/d) in Quantum Opto-Acoustics

We are an independent research group at the Max Planck Institute for the Science of Light. Our research interests span from nonlinear optics to quantum optics with a focus on light-sound interactions and waveguide optomechanics. The physics of optical waves interacting with acoustic or mechanic vibrations is fascinating because it links two very different domains in terms of frequency, velocity, dissipation and other properties. We explore these interactions experimentally at the classical and quantum level with suitably tailored microstructured fibres and nanowaveguides to manipulate, in this way, light states.

We invite applications from highly talented researchers for a **2-year Post-Doc Position (extendable)** in the field of experimental quantum opto-acoustics. The successful candidate will work experimentally at the interface of quantum optics, nonlinear optics and quantum information processing. The Post-Doc will be involved in different group projects and have the opportunity to guide MSc and PhD students and play a responsible role in the laboratory.

Requirements and skills:

- PhD degree in physics or photonics
- Relevant publication track record
- Significant experience in some of the following fields: quantum optomechanics, quantum communications, nanomechanics, nonlinear optics
- Ability to work independently and in a research team, collegiality and enthusiasm
- Very good communication skills in English (written and oral)

We offer a dynamical group atmosphere in an excellent research environment. We have local and international collaborations with experimental and theoretical research groups. The Max Planck Institute for the Science of Light (www.mpl.mpg.de) is a world leading institution in basic research in light-matter interaction and quantum optics. The Max Planck Society is committed to increasing the number of individuals with disabilities in its workforce and therefore encourages applications from such qualified individuals. Furthermore, the Max Planck Society seeks to increase the number of women in those areas where they are underrepresented and therefore explicitly encourages women to apply.

For more information and application (including a motivation letter, CV, publication list and the contact details of two possible referees) please contact:

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