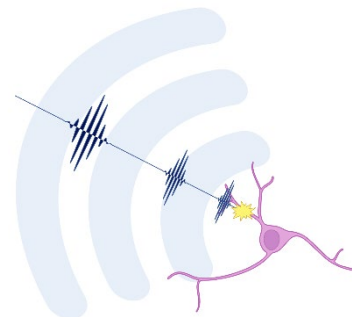


Postdoc Position – Ultrasonic Neurostimulation

The project *SonoStim* is looking for a postdoctoral researcher to work on an interdisciplinary project investigating how ultrasound (US) neuromodulation works at a biophysical level.

You will work on a collaborative project led by Dr. Athanasios Athanassiadis (Heidelberg University, IMSEAM) and Dr. Katrin Schrenk-Siemens (Heidelberg University, Dept. of Pharmacology) to determine the connection between ultrasonic forces on neurons and their biological responses, in order to develop new methods and devices for US neurostimulation in therapeutic applications.



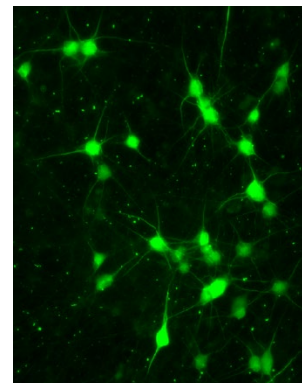
What you bring

- **Either** a PhD in Neurobiology or related field with expertise in cell culture techniques, understanding of ion channels and mechanosensation, and a strong interest to learn the hardware and physics of ultrasonic neuromodulation.
- **Or** a PhD in Physics or Engineering with expertise in acoustics, and a strong interest to learn microscopy, cell culture techniques, and neuron differentiation from pluripotent stem cells.
- Hands-on experience with ultrasound hardware, neuronal culture, or neuromodulation are a plus.

We're looking for enthusiastic candidates with a proven track record of excellent research.

What we offer

- A cutting-edge, interdisciplinary research project with translational potential.
- A stimulating, international research environment
- Access to state-of-the-art facilities and top researchers throughout the broader Heidelberg scientific community (Heidelberg University, University Hospital, DKFZ, EMBL, MPI).
- Membership in two leading research groups with complementary expertise in sensory neurobiology and ultrasound physics and instrumentation.



This position is funded for 2 years, starting early 2025.



For more details & to apply, visit

<https://www.imseam.uni-heidelberg.de/en/fischer/jobs/2024-sonostim>

