

SFB1286



UNIVERSITÄT  
GÖTTINGEN

# Open PhD position in the Köster group University of Göttingen

**Are you looking for an interdisciplinary research project?**

**Do you enjoy international collaborations?**

**Are you passionate about applying modern methods?**

**Do you hold a M.Sc. in physics or a closely related field?**

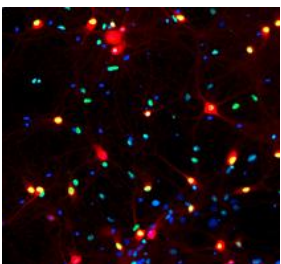
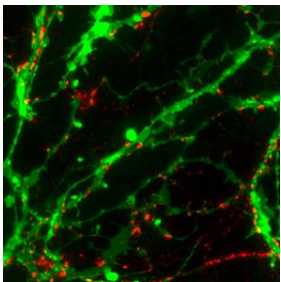
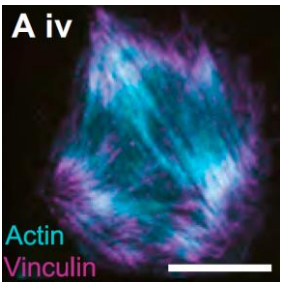
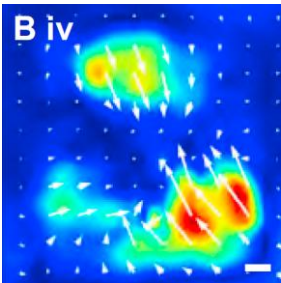
We are seeking a skilled and motivated PhD student to join our team working on the **measurement of cellular forces** using **traction force microscopy (TFM)** and advanced **optical microscopy techniques**. Within the Collaborative Research Center 1286 “**Quantitative Synaptology**” and in collaboration with the University Medical Center (UMG) Göttingen, this project investigates the forces generated by **neuronal model cells** during **synaptic activity**. You will:

- ⇒ Perform biophysical experiments with cultured neuronal model cells
- ⇒ Apply optical microscopy and TFM
- ⇒ Analyse data and develop theoretical models
- ⇒ Publish and present you results to the scientific community

This position (75% TV-L E13) is available at the earliest possible date. Previous publications can be found via DOIs:

10.1016/j.bpj.2023.07.010, 10.1039/c8sm02136h,  
10.1039/C8SM00895G, 10.1186/s12915-025-02464-9.

For more information, please contact Prof. Dr. Sarah Köster at [sarah.koester@uni-goettingen.de](mailto:sarah.koester@uni-goettingen.de).



The official job ad



The research group



Gefördert durch

**DFG** Deutsche  
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