

The **INM – Leibniz Institute for New Materials** in Saarbrücken, Germany, is an internationally leading center for materials research, a scientific partner to national and international research institutions, and a provider of research and development for companies throughout the world. The INM is an institute of the Leibniz Association and has about 250 employees.

The INM's research group *Dynamic Biomaterials* develops polymer materials to provide signals to embedded cells. One exciting research line involves synthetic biointerfaces containing light-responsive molecular motors that can activate cellular processes by applying forces at molecular level. To fully develop this tool, we aim to couple the current biomaterial/biointerface design to molecular technologies to quantify the applied forces by the motor in situ, and also those exerted by the cells in response. This project is part of a 3 years international collaborative project with three other partners with complementary expertise in molecular tools and cell biology. To this end, we are seeking to fill an open position for a Postdoc.

POST-DOC BIOPHYSICS/CELL FORCES (M/F/D)

(starting date: asap, salary level 13 TV-L, 39,5h/week).

Your profile:

- background in biophysics or cell biology, or exceptionally in biomaterials science or biochemistry at the interface to any of the two other disciplines
- experimental experience in Traction Force Microscopy, FRET tension sensors and/or advanced imaging techniques for the monitoring and quantification of cellular forces is an added benefit
- self-motivated, good interpersonal, communication and presentation/ writing skills
- a demonstrated ability to interact effectively with staff at all levels
- the ability to work as a member in an international, multi-disciplinary team
- proficiency in English
- The project is part of a highly interdisciplinary initiative and the applicant is expected to closely interact with the partners in a proactive manner.

Information on preliminary work related to the research topic can be found under: <https://www.biorxiv.org/content/10.1101/2020.03.31.015198v1>

Interested candidates should submit their complete application via email (a single pdf file, less than 5 MB) to Prof. Dr. Aránzazu del Campo (Aranzazu.DelCampo@leibniz-inm.de) including the following:

- motivation letter of max. 1 page (included in the text of the email)
- CV (max 2 pages) with publication list
- contact details of 2 reference scientists, ideally one of them should be the PhD supervisor.

The deadline for submission is **15th April 2021**. We expect to fill the position as soon as possible, ideally in May 2021. The INM is an equal opportunity employer with a certified family-friendly policy. We promote professional opportunities for women and strongly encourage them to apply. Full-time jobs can generally be divided.



CONTACT

INM – Leibniz Institute
for New Materials
Campus D2 2
66123 Saarbrücken/Germany
www.leibniz-inm.de

Prof. Dr. Aránzazu del Campo
Scientific Director, INM
Professor for Materials
Synthesis, Saarland
University
aranzazu.delcampo@leibniz-
inm.de
Phone: +49681-9300-510
Fax: +49681-9300-223