PhD position within the Marie Skłodowska-Curie Doctoral Network INTRABRAIN

Naturwissenschaftliche Fakultät, Erlangen, Full time, Temporary employment: until 31.08.2029, Bewerbungsschluss: 28.05.2026

Your Workplace

The Biointerfaces Lab at Friedrich-Alexander-Universität Erlangen-Nürnberg (FAU) is seeking a highly motivated PhD candidate with a strong background in nanomedicine, biomaterials, pharmaceutical sciences, chemistry, biomedical engineering, or a related discipline. The PhD position will be part of the MSCA Doctoral Network **INTRABRAIN**: Nanoplatforms and Oncolytic viruses for novel cancer immunotherapy strategies.

The PhD project focuses on the development of chitosan-coated nanoparticle systems functionalised with peptides for oncolytic virus encapsulation, with the aim of improving translocation across the blood-brain barrier and targeting of glioblastoma cells.

The work lies at the intersection of biology, biomaterials, and biotechnology, within a highly interdisciplinary team combining expertise in nanomaterials, biology, and cellular interfaces. You will have access to:

- Advanced interdisciplinary training in nanomedicine, biomaterials, and translational biomedical research, embedded in an international consortium with secondments within the Training Network
- A highly interdisciplinary and international research environment
- Access to and training in advanced methods in nanomaterials, imaging, and physiology
- Close supervision and strong integration into a dynamic research team at FAUExcellent support during the academic qualification phase

Job Benefits

- Regular promotion to the next level and increase in salary pursuant to the collective bargaining agreement for the public service of the German Länder (TV-L) or remuneration pursuant to the Bavarian Public Servants Remuneration Act (BayBesG) plus an additional annual bonus
- 30 days annual leave at five working days per week with additional free days on December 24 and 31
- Occupational pension scheme and asset accumulation savings scheme

Description

Your tasks

The successful candidate will work on:

· Integration of translocating and targeting peptides into nanoparticle polymer complexes

· Assess nanoparticle transport in endothelial cell models using fluorescence-based methods

· Evaluate tumour-targeting efficacy in glioblastoma models.

- Collaborate closely with researchers in materials science and bioengineering

Qualifications

Required qualifications

Applicants should hold a Master's degree in nanomedicine, biomaterials, pharmaceutical sciences, chemistry, biomedical engineering, or a related discipline, and must meet the MSCA Doctoral Networks mobility and eligibility requirements (https://marie-sklodowska-curie-actions.ec.europa.eu/actions/doctoral-networks).

Desired experience

Experience in cell culture and fluorescence-based methods, as well as nanoparticle synthesis and functionalization would be an asset.

Supplementary description

Application

Applicants should send **one** pdf file with:

- Curriculum Vitae (max 2 pages)
- Cover letter (max 1 page)
- Certificate of Master's Degree (or equivalent) with transcript of records
- Application form found within the portal with:
- Proof of English proficiency
- Contact details of 2-3 referees, who may be contacted directly by the appointment committee.
- List of publication(s) (incl. manuscript of listed publication), if applicable
- Work/research experience certificates, if applicable

via this portal.

Deadline

Submit your application by May 28th 2026.

For additional information please to contact contact-biointerfaces@fau.de

Interessiert?

Die vollständige Stellenausschreibung sowie alle Infos zum Bewerbungsverfahren finden Sie hier: