Freie Universität Berlin - Fachbereich Biologie, Chemie, Pharmazie - Institut für Chemie und Biochemie

Research assistant (praedoc) (m/f/d)

full-time job limited to 3 years non-tariff remuneration / flat-rate personnel costs
reference code: 2503-BUG-IG

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet auf 3 Jahre; Remuneration: Außertarifliche Vergütung mit einem Haushaltsbrutto von 4.768,12 € bis 5.263,12 €.; Reference number: 2503-BUG-IG; Closing date: 02/02/26

Working field

The advertised project BUG-ID is an international training network focusing on the overarching goal to develop advanced graphene-based biosensors, combining nanomaterials and engineered biomolecular receptors, for rapid and sensitive detection of infections and antimicrobial resistance genes. Aim of the particular project is on the chemical synthesis and functionalization of graphene based materials. As a doctoral candidate, you will become part of an excellent scientific international network and benefit from our structured, interdisciplinary graduate programme offers, which include training courses, workshops, retreats and conferences. Non-tariff EU contract with non-standard remuneration with a gross household income of 4.768,12 € bis 5.263,12 €.

Job description:

- Chemical synthesis of porous graphene-based materials and functionalization of those by wet-chemical methods to introduce specific binding motifs for sensing purposes.
- In-depth characterization of the synthesized materials.

Requirements

Requirements:

- Completed university degree (M.Sc. or Diploma degree) in chemistry or a closely related field.
- Applicants must comply with the MSCA mobility rule: they must not have resided or carried out their main activity (work, studies, etc.) in Germany for more than 12 months in the 36 months immediately before the call deadline.

Desirable:

- Experience in the functionalization of graphene or graphene oxide.
- Methods for 2D materials processing and characterization, as Raman spectroscopy, XPS, TGA, ssNMR, Tof-SIMS, EA, FTIR.
- organic synthesis and typical characterization methods, as NMR, FTIR, MS, EA.
- excellent Master degree with courses in synthetic chemistry or closely related fields.
- research expertise of several months (e.g., during a Master thesis). Ideally, the experimental
  or theoretical methods in your command align with the research direction of the project you are interested in.
- excellent command of written and oral English (B2).
- basic knowledge of written and oral German (A2) is beneficial.
- Experience in the presentation of scientific results in written and oral forms, e.g., during seminar presentation and as a written manuscript.

Application

Applications should be sent by e-mail, together with significant documents, indicating the **reference code, no later than February 2nd , 2026** in PDF format (preferably as one document) to Prof. Dr. Siegfried Eigler: melanie.wellmann@fu-berlin.de or postal to

Freie Universität Berlin
Fachbereich Biologie, Chemie, Pharmazie
Institut für Chemie und Biochemie
Herrn Prof. Dr. Siegfried Eigler
Altensteinstr. 23a
14195 Berlin (Dahlem)

With an electronic application, you acknowledge that FU Berlin saves and processes your data. FU Berlin cannot guarantee the security of your personal data if you send your application over an unencrypted connection.
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More information at https://stellenticket.de/200634/BUA/
Offer visible until 02/02/26