

**Freie Universität Berlin - Fachbereich Biologie, Chemie, Pharmazie -  
Institut für Chemie und Biochemie****Research assistant (praedoc) (m/f/d)**

with 65% part-time job limited to 3 years salary grade (Entgeltgruppe) 13 TV-L FU  
reference code: WiMi-AGPagel\_260

City: Berlin; Starting date (earliest): At the earliest possible; Duration: befristet auf 3 Jahre; Remuneration: Entgeltgruppe 13 TV-L FU; Reference number: WiMi-AGPagel\_260; Closing date: 26/01/26

**Working field**

The Pagel research group at the Institute of Chemistry and Biochemistry of Freie Universität Berlin is an interdisciplinary and internationally well-connected team and is seeking a highly motivated, scientifically excellent, team-oriented, and experienced research associate (doctoral researcher) within the DFG-funded project Amyloid Cryo IR. The aim of this project is to deepen the molecular understanding of how amyloid- $\beta$  (A $\beta$ ) oligomers contribute to the development of Alzheimer's disease. To this end, a new analytical method is being developed that combines ion mobility mass spectrometry with cryogenic infrared spectroscopy.

**Job description:**

The PhD student will help to establish this method, prepare recombinant A $\beta$  peptides and variants, and perform structural measurements on oligomeric states inaccessible to traditional techniques. The work includes tracking changes in oligomer size, shape, and structure during aggregation, and studying how membranes, lipids, and metal ions affect their formation and stability. By integrating experimental data with modelling and complementary spectroscopy, the project seeks to identify structural features linked to toxicity and clarify how specific interactions alter aggregation pathways

**Requirements**

Requirements:

- Completed university degree (M.Sc. or Diploma degree) in chemistry or biochemistry.

Desirable:

- Excellent Master's degree (M.Sc.) in Chemistry, at least grade 2 (equivalent to "good")
- Experience in the (bio-)synthesis of peptides and proteins
- Basic knowledge of computational methods
- Knowledge in HPLC, mass spectrometry, and ion mobility spectrometry
- Excellent written and spoken English skills
- high motivation for scientific research
- Ability to work efficiently and self-organize even under time pressure
- Team spirit as well as strong social and communication skills

## Application

We look forward to receiving your application, which should include the following documents:

- A one-page letter of motivation why you would like to work in the AG Pagel, specifically in the project Amyloid Cryo IR, together with details of previous research experience and future goals
- Your curriculum vitae (including a list of publications if applicable),
- Proof of your academic achievements including copies of your Bachelor's and Master's degrees
- at least two letters of support.

Applications should be sent by e-mail, together with significant documents, indicating the **reference code, no later than January 26th 2026** in PDF format (preferably as one document) to Prof. Dr. Kevin Pagel: [miriam.mahn@fu-berlin.de](mailto:miriam.mahn@fu-berlin.de) or postal to

Freie Universität Berlin  
 Fachbereich Biologie, Chemie, Pharmazie  
 Institut für Chemie und Biochemie  
 Herrn Prof. Dr. Kevin Pagel  
 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.

Freie Universität Berlin is an equal opportunity employer.

More information at <https://stellenticket.de/200636/BUA/>  
 Offer visible until 26/01/26

