Technische Universität Berlin offers an open position:

**Research Assistant - 0.5 working time - salary grade E13 TV-L Berliner Hochschulen**

**Faculty II - Institute of Chemistry / Bioenergetics**

**Reference number:** II-64/20 (starting at 01/04/20 / until 31 march 2023 / closing date for applications 28/02/20)

**Working field:** Research on the protein-supported carotenoid transport by “Holologe” of the Orange Carotenoid Protein (OCP)

- Generation of cDNA constructs for protein and carotenoid production in bacteria by molecular-biological methods, site-directed mutagenesis, recombinant PCR
- Carotenoid and protein production in bacteria, chromatographic purification and protein analytics
- Mass spectrometry on carotenoids and carotenoid-binding proteins
- Site-specific mutagenesis for the introduction of motifs for targeted fluorescence labeling
- Liposome preparations and carotenoid transfer experiments
- UV/Vis absorption, CD and fluorescence lifetime spectroscopy
- Small-angle X-ray and neutron scattering experiments (SAXS, SANS)
- Functional studies on carotenoid-binding proteins
- Writing/editing of scientific manuscripts for publication, conference and project reports
- PhD thesis preparation is possible

**Requirements:**

- Successfully completed university degree (Master, Diplom oder Äquivalent) in Biophysics, Biochemistry, Biological Chemistry or Chemistry
- Experience in molecular biology, protein biochemistry and chromatographic techniques (FPLC, HPLC, SEC, HIC) required
- Expertise in spectroscopic techniques (UV-Vis absorption spectroscopy, fluorescence spectroscopy)

**Desired:**

- Experience with mass spectrometric analysis of proteins and bioorganic molecules (ESI-MS, LC-MS), skills in bio-physical chemistry
- ability to work in a team and to cooperate
- Fluent English (oral and written), and basic knowledge of Russian language are advantageous

Please send your **written** application with the **reference number** and the usual documents to Technische Universität Berlin - Der Präsident - Fakultät II, Institut für Chemie, FG Bioenergetik, Prof. Dr. Friedrich, Sekr. PC 14, Straße des 17. Juni 135, 10623 Berlin or by e-mail to friedrich@chem.tu-berlin.de.

To ensure equal opportunities between women and men, applications by women with the required qualifications are explicitly desired. Qualified individuals with disabilities will be favored. The TU Berlin values the diversity of its members and is committed to the goals of equal opportunities.

Please send copies only. Original documents will not be returned.

The vacancy is also available on the internet at http://www.personalabteilung.tu-berlin.de/menue/jobs/