We are one of the youngest universities in Germany and think in terms of possibilities, not limitations. In the heart of the Ruhr region, we develop ideas of the future at our 11 *faculties. We are strong in research and teaching, live diversity, support potential and are highly committed to an educational equality that has earned this name.*

The **University Duisburg-Essen (Campus Essen)**, offers a position with working place at the Faculty of Chemical Biology, **Eindhoven University, The Netherlands** as:

Postdoc position "*Modulation of 14-3-3 Protein-Protein Interactions by Supramolecular Chemistry*"

(salary equivalent to TV-L 13)

Modulation of Protein-Protein Interactions (PPIs) with small-molecules is one of the most promising and challenging areas in Chemical Biology and Drug Discovery. The adapter protein 14-3-3 acts as a "hub" by interacting with several hundred partner proteins in human cells. These 14-3-3 PPIs are implicated in a number of diseases ranging from cancer and neurodegeneration to inflammation and metabolic syndromes. In the CRC1093 we aim to modulate 14-3-3 PPIs with supramolecular ligands and optimize these molecules as novel tools for basic research on 14-3-3 proteins. The position described here is to be filled via the University of Essen, Germany, and main working place will be in Eindhoven University of Technology, The Netherlands. The successful candidate will work together with colleagues within CRC1093. Date of hiring will be 01.04.2019 until 31.12.2021.

The universities of Essen and Eindhoven will offer the postdoc a unique opportunity to gain world class knowledge and hands-on experience in various applications of chemical biology, x-ray crystallography and biophysical techniques at the forefront of biomedical research and development.

Your tasks:

- Purification of full-length 14-3-3 proteins as well as target protein constructs
- Co-crystallization of 14-3-3 proteins in complex with protein partners, peptides and supramolecular ligands
- Biophysical characterization of complexes by Fluorescence Polarization, Surface Plasmon Resonance and Isothermal Titration Calorimetry

Your profile:

- Have a PhD in chemistry, biology, biochemistry, or biotechnology.
- Have excellent track record from their previous studies along with experience and expertise in at least one of these fields: biochemistry, protein expression, x-ray crystallography, protein biophysics. Good knowledge on chemistry is a plus.
- Speak fluent English (spoken and written/proficiency level).

Start of position: 1st April 2019

Contract period: Until 31.12.2021 (with a possibility to prolong)

Working time: 100% (full time)

Application deadline: 14th April 2019

The University Duisburg-Essen aims at promoting the diversity of its members (s. http://www.uni-due.de/diversity).

The University Duisburg-Essen has been awarded for its effort to promote gender equality with the "Total-E-Quality-Award". It aims at increasing the share of women in the scientific personnel and therefore explicitly encourages women to apply. Women will be preferentially considered when equally qualified according to the state equality law.

Applications from disabled or equivalents according to § 2 (3) SGB IX are encouraged.

Applications and inquiries with reference code **84-19** should be addressed to:

Prof. Dr. Christian Ottmann; christian.ottmann@uni-due.de

You'll find information about the Faculty and the contracting authority under: https://www.uni-due.de/crc1093/en/area-b/b4.php

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