The **Institute for Biophysics** in the Department of Physics at the Goethe-University Frankfurt announces one opening for a

**Master Thesis**

in the Macromolecular Electron Spin Resonance (ESR) Spectroscopy group ([https://www.in-situ-esr.de](https://www.in-situ-esr.de)). In collaboration with the group of Prof. Robert Tampé, the student will work on elucidating the mechanism for substrate translocation in an ATP-Binding Cassette (ABC) membrane transport protein complex using biochemical and biophysical techniques. For an overview of this highly interdisciplinary project, please refer to the following publications.


**Responsibilities:**

- express, purify, and spin label different variants of the ABC transporter membrane protein complex

- perform activity assays, biophysical characterization, pulsed ESR spectroscopy techniques, and data analysis

**Qualification profile:**

We are looking for a highly motivated Master student of Biochemistry / Biophysics / Chemistry (or equivalent). The position is available for up to six months or longer.

**Send application to:**

Interested student may contact Benesh Joseph, Institut für Biophysik, Goethe-Universität, Raum __ __412, Max von Laue-. Str. 1, 60438 Frankfurt am Main, E-Mail: *joseph@biophysik.uni-frankfurt.de*, Tel: +49 69 798 46430.