STudent REseArch Mobility Programme (STREAM)
Research Project proposal

Host University:
Albert-Ludwigs-Universität Freiburg

Field (drop-down list):
Natural sciences, mathematics and statistics

Specified field, subject:
Biochemistry

Research project title:
Characterization of membrane proteins and metalloproteins

Possible starting month(s):

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Possible duration in months:

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*Exact starting and end dates will be discussed between the supervisor and the student*

Suitable for students in: ☐ Bachelor level ☒ Master level

Prerequisites:
B.Sc. in Biochemistry or Biology/Chemistry with courses in Biochemistry

Restrictions:
Participation at Safety Instructions

Description (maximum 2,000 characters):
We are working on membrane proteins complexes and proteins containing metal-cofactors. Using advanced molecular biology techniques we generate variants that are purified to homogeneity by chromatographic means. The preparations are characterized by various spectroscopic methods, enzyme activity and a broad range of topical biophysical methods. The ultimate goal is determine the protein structure by x-ray crystallography or cryo-electron microscopy. The work is placed in an interdisciplinary field including biology, chemistry, medicine and physics. Participation in soft-skill courses are offered in the framework of existing research training groups.
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Research laboratory:
Institut für Biochemie

Faculty and/or Department:
Fakultät für Chemie und Pharmazie

Deadline for nomination to reach host university:
2 month before starting the visit

Notification of admission given by the end of:
The month before starting the visit

Additional information:
Email to Prof. Thorsten Friedrich
Friedrich@bio.chemie.uni-freiburg.de

Contact person, including position:
Dr. Moritz Heck
Coordinator LERU-STREAM
Abteilung Lehrentwicklung
Universitätsverwaltung am Fahnenbergplatz

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