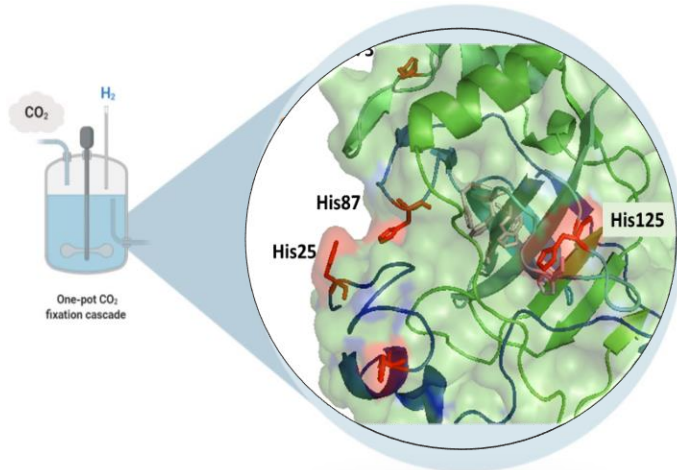


## Master Thesis

### Multi-enzymatic CO<sub>2</sub> cascade design and application

#### Description:

To date, CO<sub>2</sub> capture has been undoubtedly a trending topic for power companies and industries worldwide. They have attempted to decrease CO<sub>2</sub> emissions by chemical and biological means. The advent of this project is to create a biomimetic approach for the transformation of carbon dioxide into industrial highly sought after chemicals.



#### Qualification:

- Master student (m/f) in the field of biotechnology, biology, biochemistry, microbiology, or chemistry, chemical engineering, bioengineering etc.
- Interested in protein engineering, process design, and molecular biology
- Good command of the English language (spoken and written)
- A highly motivated individual, creative, and a team player.

#### Techniques:

You will learn techniques in the interdisciplinary fields of molecular biology and process engineering:

- Gene cloning, transformation, and site-directed mutagenesis
- Protein expression & purification
- Design of experiments (DoE), thermodynamic pathway engineering
- High throughput screening 96 well plates
- HPLC, UV-vis, SDS PAGE, affinity chromatography, and biocatalysis.

#### Contact:

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