

# Master's Thesis Opportunity

## Cradle-to-gate LCA of CCU/S system

**Duration**  
4 months (flexible)  
**Start**  
Immediately

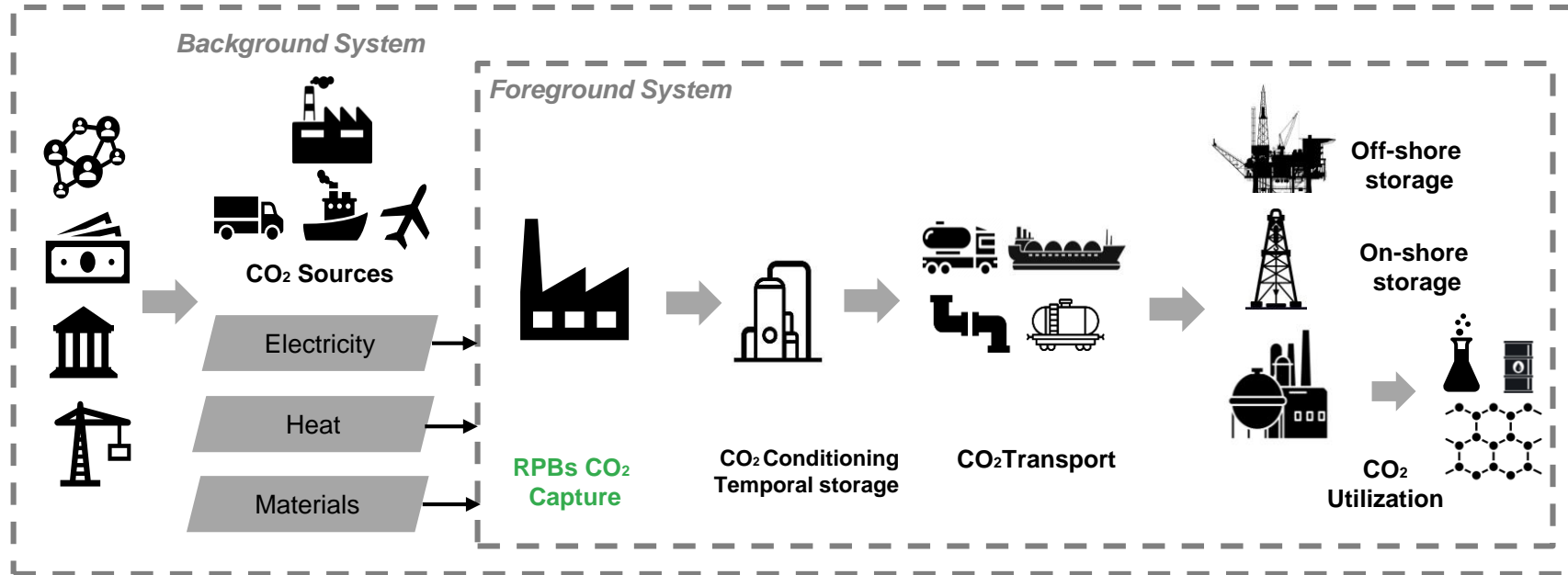


Figure Source: Wang et al., 2024



([hirecord.eu](http://hirecord.eu))



**What?** Perform a cradle-to-gate Life Cycle Assessment for post-combustion CO<sub>2</sub> capture, covering everything from the emitting plant to CO<sub>2</sub> storage or utilization.

**How?** Utilization of **SimaPro** and **econvent** for sustainability assessment. **MATLAB** and **ASPENplus** for simulation modelling.

**Why?** Gain experience in process simulation and LCA while contributing to **scale-up** innovative carbon capture technology under the HiRECORD EU initiative demonstrating CO<sub>2</sub> capture using Rotating Packed Beds with the new APBS-CDRMax solvent (Interaction and collaboration with project members from EU and UK universities and institutions)



Interested in participating/Further Questions? 

Join us and make a real impact on carbon capture landscape 

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