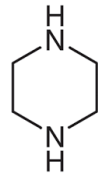
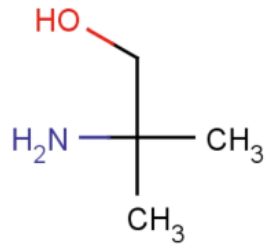


# Master's Thesis Opportunity

## AMP/PZ Solvent **Synthesis** & Cradle-to-Grave **LCA** in amine-based PCCC

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



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



**What?** Develop and refine the synthesis of AMP and PZ solvents in process simulator, creating robust models before conducting a cradle-to-grave Life Cycle Assessment.

**How?** Conduct solvent synthesis and process simulations with **ASPENplus** and use **SimaPro** and **ecoinvent** to perform comprehensive sustainability assessment.

**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 a **patented-new 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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Supervisor : Professor Dr. Stavros Papadokonstantakis