The Internship Project

Objective: Determining optimal DDAC operating conditions dependent on geographical location

Skytree builds technology for the Decentralized Direct Air Capture (DDAC) of CO2. As part of that technology, we design, develop, and build filters for CO2 capture using a sorbent material. It is vital for our technology to always show optimal performance, regardless of operating conditions. However, depending on the geographical location of the DDAC site, the composition of air can change significantly (e.g. temperature, altitude, humidity, contaminants, etc.). In that case, capture and release operating parameters may need to change. Furthermore, the filters may need to be exchanged more or less frequently.

To know what settings provide the best DDAC performance in varying weather conditions, we are looking for an internship candidate to do a literature review of global (extreme) weather conditions and air compositions. The candidate will perform both a theoretical and experimental evaluation of the Skytree technology settings and build a sorbent deactivation model incorporating the findings. Further we encourage the student to provide recommendations on, e.g. sorbent material choices or filter media.

Candidate Requirements:

- Natural Sciences (Physics, Mathematics, Chemistry, etc.)
- B.Sc. completed; current M.Sc. students or recent graduates

Internship Conditions at Skytree

40h/week
Min. 3 month duration
450 Euro/month
We treat all interns as members of the team and expect them to actively participate in Skytree's meetings and activities.

Please submit your application via https://skytree.eu/careers/