DACMA
engineering and building
DAC machines

DACMA GmbH
Hermann-Blohm-Straße 3
20457 Hamburg
www.dacma.com

MASTER THESIS/ INTERNSHIP

HEAT MANAGEMENT IN DIRECT AIR CAPTURE (DAC) PLANTS

We are seeking a highly motivated Master Thesis Student to join our team and contribute to the development of heat management concepts for our Direct Air Capture plants. This is an excellent opportunity for a talented individual to engage in groundbreaking research and make a meaningful impact in the fight against climate change

RESPONSIBILITIES:

- Research and Analysis: Conduct comprehensive literature reviews and analyze existing plant concepts for Direct Air Capture machines. Identify potentials for heat recovery and external heat integration
- Conceptual Design: Collaborate with our engineering team to develop innovative plant concepts that enhance the efficiency, scalability, and cost-effectiveness of our Direct Air Capture technology
- Simulation and Modeling: Utilize software and simulation tools to model and simulate the performance of different concepts. Evaluate key metrics such as energy consumption
- Documentation and Reporting: Prepare detailed technical reports and presentations summarizing research findings, design methodologies, and experimental results

JOIN OUR TEAM
APPLY NOW
apply@dacma.de

Job ID: S-R202501-1

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REQUIREMENTS:

- Currently enrolled in a technical degree e.g. Process engineering, environmental engineering or related
- Strong background in process engineering, thermodynamic and energy and heat management
- Experience in process simulation software such Aspen Hysis or Aspen Plus would be beneficial
- Excellent analytical and problem-solving skills, with the ability to think critically and creatively
- Ability to work independently and collaboratively, with strong communication and interpersonal skills
- English is our working language, and your thesis must be written in English

Duration: This offer lasts 9 months, comprising 3 months of internship and 6 months for your thesis.
Location: The working place will be at our headquarters in Hamburg.

We offer a stimulating and collaborative research environment, the opportunity to work on a cutting-edge topic in environmental engineering, and the potential for publication of research findings. Join us and contribute to the advancement of DAC engineering and the development of sustainable solutions for climate change.

Join us and contribute your design engineering expertise to shape a more sustainable future!

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