

PhD/Postdoctoral Researcher Positions in CO₂ Capture and Synthetic Chemistry

I am excited to announce a postdoctoral research position and PhD vacancies in the dynamic and innovative field of CO₂ capture, with a particular focus on synthetic chemistry and polymerization mechanisms. My research group is dedicated to addressing one of the most pressing global challenges of our time: mitigating the effects of climate change through the development of advanced materials and processes for CO₂ capture and utilization. Located at Sabanci University Integrated Manufacturing Technologies Research and Application Center, our state-of-the-art laboratory facilities provide an exceptional environment for cutting-edge research.

Position Description:

We are seeking a highly motivated and talented postdoctoral researcher and ambitious graduate students to join our multidisciplinary team. The successful candidate will play a pivotal role in advancing our understanding of CO₂ capture materials, particularly in the areas of synthetic chemistry and polymerization mechanisms. The primary objectives of this position are:

- Design and synthesize novel materials for CO₂ capture, with an emphasis on polymer-based systems.
- Investigate the fundamental mechanisms underlying polymerization processes relevant to CO₂ capture.
- Characterize and evaluate the performance of these materials in capturing and adsorbing CO₂.
- Collaborate with team members on related projects and contribute to the overall research goals of the group.

Qualifications:

- Ph.D. and MSc in Chemistry and Materials Science.
- Expertise in synthetic chemistry and polymerization techniques.
- Strong analytical and characterization skills, including spectroscopy, microscopy, and materials characterization.
- A track record of research productivity as evidenced by publications in reputable journals.
- Excellent problem-solving abilities and a willingness to work in a collaborative, team-oriented environment.
- Effective communication skills, both written and oral.

Application Instructions:

Interested candidates should submit the following application materials to burcu.saner@sabanciuniv.edu:

A cover letter outlining their research interests and relevant experience.

Curriculum vitae (CV) including a list of publications.

Contact information for three professional references.

A brief research statement (1-2 pages) detailing their approach to the project.

Join us in the pursuit of groundbreaking research that addresses the critical challenge of CO₂ capture and utilization.