

Postdoc Position in Selective CO₂ Capture by MOF
materials
Aarhus University, Denmark

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Posted Jun. 9, 2022, set to expire Oct. 9, 2022

Job Title	Postdoc Position in Selective CO ₂ Capture by MOF materials
Department	Department of Biological and Chemical Engineering https://bce.au.dk/en/
Institution	Aarhus University, Denmark Aarhus, , Denmark
Date Posted	Jun. 9, 2022
Application Deadline	Jul. 3, 2022
Position Start Date	Oct. 1, 2022
Job Categories	Post-Doc
Academic Field(s)	Chemical/Petroleum Material/Metallurgy
Job Website	https://au.career.emply.com/ad/postdoc-position-in-selective-co2-capture-by-mof-materials/mmtyg5/en
Apply Online Here	https://au.career.emply.com/en/apply/postdoc-position-in-selective-co2-capture-by-mof-materials/mmtyg5

Apply By Email

Job Description

The Water Engineering Innovation (WEI) Lab at Department of Biological and Chemical Engineering, Aarhus University, invites applications for an 18-month postdoc position offering applicants an exciting opportunity to join a new research project on MOF-enhanced CO₂ capture. The starting date is October 1, 2022, or as soon as possible.

Job description

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This project aims to fabricate metal organic frameworks (MOFs) for selective CO₂ capture and measurement. The key tasks in this project will be:

- Design and assembly MOFs selective to CO₂
- Exclude interfering ions/molecules such as H₂S
- Evaluate scalability and feasibility
- Communicate with industrial partners
- Write manuscripts and mentor master/bachelor students

Your profile

Required education and skills:

- Applicants should hold a PhD in Chemistry, Material Science, Chemical Engineering, or similar
- Strong background in synthetic chemistry and MOFs fabrication
- Practical experience in sensors will be a plus
- Self-motivated, pro-active, team- and goal-oriented personality
- Good communication and/or language skills in English

Who we are

The Department of Biological and Chemical Engineering represents multidisciplinary research fields within the sections of medical biotechnology, industrial biotechnology, process and materials engineering, and environmental engineering. The Water Engineering Innovation group headed by Zongsu Wei focuses on sustainable water and energy production. We offer an exciting opportunity to join an ambitious research project of CO₂ capture in collaboration with universities and industries. For more information: <https://bce.au.dk/en/research/key-areas-in-research-and-development/environmental-engineering/water-engineering-innovation/>

What we offer

The department offers:

- a well-developed research infrastructure, laboratories and access to shared equipment
- an exciting interdisciplinary environment with many national, international and industrial collaborators
- a research climate encouraging lively, open and critical discussion within and across different fields of research
- a work environment with close working relationships, networking and social activities
- a workplace characterised by professionalism, equality and a healthy work-life balance.

Place of work and area of employment

The place of work is the Environmental Engineering Section at the Department of Biological and

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Chemical Engineering, Aarhus University, Universitetsbyen 36, 8000 Aarhus C, and the area of employment is Aarhus University with related departments.

Contact information

For further information, please contact: Assistant Professor Zongsu Wei, phone number: +45 9352 2047, email: zwei@bce.au.dk.

Deadline

Applications must be received no later than 3 July 2022.

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<https://au.career.emply.com/ad/postdoc-position-in-selective-co2-capture-by-mof-materials/mmtyg5/en>

Contact Information

Please reference Academickeys in your cover letter when applying for or inquiring about this job announcement.

Contact Zongsu Wei, Assistant Professor
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