

**MNT2 - Mechanochemical synthesis of crystalline
adsorbent Materials Based on Metal-Organic Framework
Universidade Federal de Sao Paulo**

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Job Title	MNT2 - Mechanochemical synthesis of crystalline adsorbent Materials Based on Metal-Organic Framework
Department	Chemistry Institute
Institution	Universidade Federal de Sao Paulo Sao Paulo, , Brazil
Date Posted	Oct. 22, 2025
Application Deadline	Nov. 7, 2025
Position Start Date	Available immediately
Job Categories	Post-Doc
Academic Field(s)	Chemistry - General
Job Website	https://tinyurl.com/5n87f553
Apply By Email	otic.jobs@uso.br
Job Description	

The project is suitable for a highly motivated candidate and requires skills in synthesis and crystalline characterization. The candidate must hold a PhD in Chemistry with experience in materials development. Experience in the preparation and characterization of porous and structured materials, as well as knowledge in crystal engineering and crystallography, is desirable. An excellent level of English writing, comprehension, and speaking is required. The candidate should have experience outside Brazil working in research centers.

The objective of this project is to develop materials with high potential for H₂, CO₂, and other gas adsorption/storage, based on metal-organic frameworks (MOFs) and covalent organic Frameworks (COFs). These materials act like sponges capable of absorbing, retaining, and releasing molecules within their pores. The main challenge in designing such adsorbents is to enhance their storage

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capacity at ambient temperature and pressure while maintaining fast adsorption and desorption kinetics. The candidate will collaborate with the researchers of the project "development of Adsorbent Materials Based on Metal-Organic Frameworks for H₂ and CO₂ transport and Storage" at the University of São Paulo. The project is linked to a research grant and can be found on the FAPESP website: <https://bv.fapesp.br/pt/auxilios/111468/otic-centro-de-inovacao-em-tecnologia-offshore/?q=2022/03698-8>.

Contact Information

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

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