

<b>Lead institution:</b> Institute of Chemistry – Univ. Estadual Paulista (UNESP)	
<b>Supervisor name:</b> Leandro Pierroni Martins	<b>Department:</b> Engineering Department
<b>Recipient:</b> <a href="https://sites.usp.br/rcgi/opportunities/">https://sites.usp.br/rcgi/opportunities/</a>  <b>Ref: 24PDR290 – PostDoctoral Fellowship</b>  <b>Deadline for submission: July 30<sup>th</sup>, 2024</b>	<b>Type: Postdoc</b> <b>Period: (hours/week) 40 hours / week</b> <b>Number of months: 36</b> <b>Intended beginning date: August, 2024</b>
<b>Project title: (Portuguese and English)</b>  Conversão catalítica de metanol a aromáticos sob alta pressão  Catalytic conversion of methanol to aromatics under high pressure	
<b>Research theme area: (Portuguese and English)</b>  Síntese de zeólitas e estudo de suas atividades catalíticas  Synthesis of zeolites and study of their catalytic activity	
<b>Abstract (Portuguese and English)</b>  O candidato irá colaborar com os pesquisadores do projeto 113 - MTA P&D da Total, Centro de Pesquisa para a Inovação de Gases de Efeito Estufa da POLI-USP na Universidade de São Paulo. Resumo do programa e os projetos podem ser encontrados no site da RCGI ( <a href="https://sites.usp.br/rcgi/">https://sites.usp.br/rcgi/</a> ). A primeira atividade envolve a seleção de zeólitas e a síntese de catalisadores hierárquicos. A segunda atividade concentra-se na caracterização das propriedades dos catalisadores, como volume de poros, distribuição de tamanho de poros e concentração de sítio ativo.  The candidate will collaborate with researchers from the project 113 - MTA P&D of the Total, Research Centre for Greenhouse Gas Innovation of POLI-USP at the University of São Paulo. Summary of the program and projects can be found at the RCGI website ( <a href="https://sites.usp.br/rcgi/">https://sites.usp.br/rcgi/</a> ). The first activity involves selecting suitable zeolites and synthesizing hierarchical catalysts. The second activity focuses on characterizing the catalysts' properties, such as pore volume, pore size distribution, and active site concentration.	
<b>Description (Portuguese and English)</b>  O candidato contribuirá alinhado aos principais objetivos do projeto: <ol style="list-style-type: none"> <li>1. Síntese de zeólitas hierárquicas</li> <li>2. Síntese de zeólitas nanométricas</li> <li>3. Estudo de atividade catalítica</li> </ol>	

The applicant will contribute in line with the main objectives of the project:

1. Synthesis of hierarchical zeolites
2. Synthesis of nanometric zeolites
3. Study of their catalytic activity

**Requirements to fill the position. (Ex: specific experience, minimum or maximum years after concluding the course) (Portuguese and English)**

Este projeto é adequado para um candidato altamente motivado e com experiência na síntese de materiais zeolíticos e aplicação catalítica (termocatálise). Proficiência em inglês é necessária. O candidato deve ser doutor em Química ou Engenharia Química.

This project suits a highly motivated candidate with experience in synthesizing zeolitic materials and catalytic applications (thermocatalysis). Proficiency in English is required. The candidate must have a PhD in Chemistry or Chemical Engineering.

**Funding Notes:** This postdoc fellowship is funded by FUSP. The fellowship will cover a standard maintenance stipend of R\$9.047,40 per month.

**Work place:** Institute of Chemistry-UNESP / Rua. Prof. Francisco Degni, 55 Araraquara - SP Brazil

**Documents/Information to be Sent:**

**Ref: 24PDR290**

- 1) Access the link <https://sites.usp.br/rcgi/opportunities/>
- 2) Find the Position **Ref: 24PDR290**
- 3) Click on Application to apply

**Deadline: July 30<sup>th</sup>, 2024**

In case you have any question, please write to [rcgi.opportunities@usp.br](mailto:rcgi.opportunities@usp.br)