

## Postdoctoral Preparation and characterization of catalysts

REF.: 25PDR323

University of São Paulo

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**Job Title** Postdoctoral Preparation and characterization of catalysts REF.: 25PDR323

**Department** Chemistry

<https://sites.usp.br/rcgi/>

**Institution** University of São Paulo

São Paulo, São Paulo, Brazil

**Date** Oct. 16, 2025

**Posted**

**Application** Oct. 31, 2025

**Deadline**

**Position** Dec. 1, 2025

**Start Date**

**Job** Post-Doc

**Categories**

**Academic** Chemical/Petroleum

**Field(s)**

**Job** <https://sites.usp.br/rcgi/opportunities/>

**Website**

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### **Research theme area:**

Materials and catalysis

### **Abstract:**

The candidate will collaborate with researchers from the Thematic Project "Tying up materials for electrochemical energy storage and catalysis" at the University of São Paulo. Summary of the project can be found at the Fapesp website: <https://bv.fapesp.br/pt/auxilios/109206/arquiteturade-materiais-para-armazenamento-de-energia-eletroquimica-e-catalise/>

### **Description:**

Currently, scientific problems are becoming increasingly complex, requiring an interdisciplinary research approach. Because of this, the creation of a team with defined, competent, and complementary expertise, as proposed in this thematic project, is of fundamental importance for the transition from science of incremental progress to a science that involves paradigm shifts and real impact on society. This post-doctoral project will focus on the development of nanomaterials for catalytic applications focused on small molecules activation into molecular energy carriers. The nanomaterials will be prepared by means to allow the precise correlation between structure and activity, allowing not only the optimization of performances, but also the "design" of nanomaterials with adequate characteristics in order to obtain new and / or improved properties, overcoming the limitations resulting from the use of conventional heterogeneous catalysts. This post-doctoral candidate will develop activities to target reactions such as CO<sub>2</sub> transformation into chemicals and fuels.

### **Requirements to fill the position:**

The candidate must hold a PhD in chemistry or chemical engineering, preferably having previous experience in the area of materials characterization and catalysis. It is desirable experience in the preparation and characterization of nanostructured catalyst materials. Excellent rates in English writing, listening, and speaking. The candidate must have a maximum of five years after concluding the PhD. Experience outside Brazil working in research centers is expected.

### **INFORMATION ABOUT FELLOWSHIP:**

This Postdoc fellowship is funded by FAPESP. The fellowship will cover a standard maintenance stipend of R\$ 12.000,00 per month.

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**MORE INFORMATION:**

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Position: **Post-Doctoral Fellowship REF.: 25PDR323**

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**Contact Information**

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

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