

Postdoctoral Researcher and PhD studies on “Solar fuels production through CO₂ reduction”

Lead institution: University of Campinas, São Paulo Brazil

CINE - Center for Innovation on New Energies (www.cine.org.br)

Supervisor: Prof. Claudia Longo

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Description of Group/Project:

The Center for Innovation on New Energies - CINE (<http://www.cine.org.br>) is offering positions to researchers, PhD and Master students to participate in the development of the project “Solar fuels production through CO₂ reduction” supervised by Prof. Claudia Longo (<http://lattes.cnpq.br/7254377052595883>) at the “Photo-electrochemistry & Energy Conversion Group”, Institute of Chemistry – UNICAMP, and in collaboration with researchers in several universities worldwide.

Based on the principles of Photo-electrochemistry and motivated by innovation and sustainability, the group has been investigating the synthesis and characterization of nanostructured semiconductor materials and their application as photocatalysts for sunlight harvesting and solar energy conversion. Initially we dedicated to study the removal of persistent pollutants and contaminants of emerging concern from water (<http://rede-globo.globo.com/globoecologia/videos/t/edicoes/v/energia-solar-para-purificar-a-agua-parte-2/2149206/>) and then we also expanded to investigate the conversion of CO₂ to syngas, hydrocarbons and other value-added chemicals.

Summary of conditions for Post-Doctoral Scholarship:

- eligible applicants are required to have (i) PhD either in material science, physics, engineering or a related discipline; (ii) experience in Electrochemistry, synthesis and characterization of materials; and (iii) fluent in English
- Full time work (40 h / week)
- Contract Length: 12 months, with possible renovation for another 12 months
- Location: Campinas, São Paulo, Brazil
- Salary: ca. R\$ 7,000.00

Summary of conditions for PhD and Master Scholarship:

- Please verify at <https://iqm.unicamp.br/en/graduate/application-and-enrollment>

How to apply:

All applications must submit their information to clalongo@unicamp.br. Please refer to CINE position” in the subject of the message. Please include:

- A cover letter.
- A full CV including contact details.
- 2 Reference letters or referee contacts.

Deadline for applications: May, 31th

2 scholarships are available.