



## POSTDOC POSITIONS

We are looking for strongly motivated researchers for postdoc positions to work in the Center for Innovation on New Energies ([www.cine.org.br](http://www.cine.org.br)) in research related to electrochemistry, solid oxide devices (materials and processing), heterogeneous catalysis, and advanced materials characterization. Candidates are expected to work in collaboration with experimental groups from IPEN, UFABC that are part of the Methane to Products division of CINE. Candidates with background in physics, chemistry, materials science & engineering, and related areas are encouraged to apply for the following openings.

- 1) Advanced Synchrotron characterization of inorganic materials (catalyst nanoparticles and thin films). Previous experience with Synchrotron techniques (measurement and analysis) such as x-ray absorption and x-ray diffraction is required. Experience with simulation and analysis programming is also a plus.  
(Contact for more info: [andre.ferlauto@ufabc.edu.br](mailto:andre.ferlauto@ufabc.edu.br), [fabiofcf@usp.br](mailto:fabiofcf@usp.br))
- 2) High temperature solid oxide devices, fuel cells and reactors. Previous experience with materials and device processing and high temperature electrochemical testing is required.  
(Contact for more info: [fabiofcf@usp.br](mailto:fabiofcf@usp.br), [daniel.florio@ufabc.edu.br](mailto:daniel.florio@ufabc.edu.br))
- 3) Use of in-operando optical spectroscopy (Raman) for catalysis reaction and device monitoring. Previous experience with Raman spectroscopy is required. Previous experience with oxides and catalysis is a plus.  
(Contact for more info: [andre.ferlauto@ufabc.edu.br](mailto:andre.ferlauto@ufabc.edu.br)).

Scholarship values are according to Fapesp table. Funding from Fapesp and Shell/Fundep. Duration from 12 months up to 36 months.

Please send CV and/or link to Lattes CV (for Brazilians) and a motivation letter for [cine.m2p@gmail.com](mailto:cine.m2p@gmail.com) until Dec 25, 2021