
Opportunity — Postdoctoral Researcher Position in Computational Materials Science at UFSCar

We are pleased to announce a **FAPESP-funded postdoctoral researcher position** at the Federal University of São Carlos (UFSCar), Brazil, in the Department of Physics under the supervision of **Prof. Matheus Paes Lima**. The position focuses on cutting-edge research using **Density Functional Theory (DFT)** to investigate point defects in perovskites and two-dimensional materials, specifically in the context of **new energy applications**.

Research Focus

The successful candidate will conduct **DFT simulations** to explore the impact of **point defects** on the **electronic, optical, and catalytic properties** of perovskites and 2D materials. The project has **collaborative ties with Universiteit Antwerpen (Belgium) and the Institute of Chemistry at São Carlos, University of São Paulo (IQSC-USP)**. The position also includes an opportunity for a research stay in Belgium during the course of the project.

Position Details

- **Duration: Three-year contract** (in accordance with FAPESP regulations).
- **Location:** Department of Physics, Federal University of São Carlos (UFSCar), **São Carlos, Brazil** (full-time, in-person position).
- **Collaborations:** Close collaboration with **Universiteit Antwerpen (Belgium) and IQSC-USP**.
- **Funding:** FAPESP Postdoctoral Fellowship with a monthly stipend of **R\$ 12,000.00**.

Requirements

- PhD in **Physics, Materials Science, or a related field**.
- Strong experience in **DFT calculations**, particularly in the **study of defects in materials**.
- Proficiency in **computational tools and programming languages** (e.g., **VASP, Python, etc.**).
- Fluency in **English** is required.

How to Apply

Please send your application, including a **CV and cover letter**, to mplima@df.ufscar.br.

Deadline: Applications will be accepted until **March 31, 2025**.