Postdoctoral positions in *first principles modeling of molecules and materials for carbonate remediation in CO$_2$ electrochemical cells* @ the University of Chicago

Two positions are available immediately in the [group of Giulia Galli](http://galligroup.uchicago.edu) at the University of Chicago for postdoctoral scholars focusing on the study of molecules and materials for the remediation of carbonate in sustainable CO$_2$ electrochemical cells. The research, funded by the Department of Energy, will be under the direction of Prof. Giulia Galli and will be carried out in close collaboration with several experimental groups at Harvard, MIT and Stanford.

Excellent candidates with a background in solid-state and/or molecular chemistry and quantum simulations of molecules and materials are invited to apply. Major duties and responsibilities include use of advanced electronic structure and molecular dynamics methods to model heterogeneous catalytic processes occurring at interfaces as well as homogeneous molecular catalysis. Tight collaborations with experimental groups are expected throughout the project.

**Application Materials:**

Candidates should submit

1) A full CV, including list of publications and contacts of at least two references.

2) A cover letter of intent to Giulia Galli at gagalli@uchicago.edu, with “Postdoctoral application: SunRISE” in the subject line (PDF attachments only).

Shortlisted candidates will be contacted individually for interviews, usually over videoconferencing.

**Academic Title:** Postdoctoral Scholar.

**Salary:** Commensurate with experience and qualifications.

**Basic Qualifications:** Ph.D. in chemistry, physics, materials science, or a related field of research.

**Availability:** Immediate

**Skills and experience:**

- Strong background in modeling catalytic processes, including experience with density functional theory calculations (required) and quantum chemical simulations (preferred).
- Previous experience with quantum mechanical molecular and materials simulation codes (preferred).
- Previous collaborations with experimental groups (preferred).
- Excellent verbal and written communication skills (required).

The position (initially for 1 year and renewable) will be hosted at the Pritzker School of Molecular Engineering (PME), at the University of Chicago, under the supervision of Prof. Giulia Galli ([http://galligroup.uchicago](http://galligroup.uchicago)). The PME offers a thriving intellectual environment, outstanding computational resources and facilities, and a very active and lively community.