Post-doctoral positions available in the group of Giulia Galli at the University of Chicago

Several positions are available in the group of Giulia Galli (https://galligroup.uchicago.edu/) at the University of Chicago for postdoctoral scholars focusing on **the study of materials for quantum technologies**, **sustainable energy sources, microelectronics and on the development of quantum simulations methods.**

The projects will be under the direction of Galli and conducted in collaboration with several scientists at the University of Chicago and at Argonne National Laboratory (https://galligroup.uchicago.edu/Collaborators/collaborators.php), and within the Midwest Integrated Center for Computational Materials (https://miccom-center.org/). Candidates with a background in condensed matter physics, chemistry or materials science and electronic structure are invited to apply.

Specific projects include:

- Development of methods to study electronic excited state properties and coherence properties of condensed systems
- First principles calculations of the properties of molecular qubits
- First principles calculations of spin-defects in semiconductors and insulators
- First principles calculations of materials for neuromorphic architectures
- First principles simulations of aqueous interfaces for energy applications

Candidates should submit:

1) A full CV, including list of publications and contacts for at least two references.
2) A cover letter of intent to Giulia Galli at gagalli@uchicago.edu, with "Postdoctoral application" in the subject line (PDF attachment only).

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

Academic Title: Postdoctoral Scholar
Salary: Commensurate with experience and qualifications.
Basic Qualification: Ph. D in physics, chemistry, materials science, or a related field of research
Availability: Immediate

Skills and experience:

- Strong background in computational condensed matter physics and/or materials science/chemistry, including density functional theory, quantum chemistry and many body perturbation theory.
- Previous experience with electronic structure calculations.
- Excellent verbal and written communication skills.

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. The PME offers a thriving intellectual environment, outstanding computational resources and facilities, and a very active and lively community of researchers.