

Job: Postdoc Opportunity in Reactor Design/Construction at Johns Hopkins University, USA

Position: Postdoctoral Researcher

Location: Baltimore, MD 21218

Open Date: January 15, 2025

URL: <https://apply.interfolio.com/161934>

Description

The Entropy for Energy (*S4E*) Laboratory at Johns Hopkins University (PI Profs. Corey Oses) has openings for postdoctoral researchers. The postdoc will be co-advised by [Prof. A. Shoji Hall at the University of Pennsylvania](#).

We invite applications for a postdoctoral researcher position focused on the design and construction of reactors with next generation catalysts for thermochemical processes. Candidates will collaborate with other experimental, theoretical, and machine learning groups to efficiently optimize reactor designs. This position offers a unique opportunity to work at the forefront of renewable energy research and catalysts, developing innovative solutions with high commercial impact for sustainable fuel production.

Qualifications

- A. Doctorate in chemical engineering, materials science, physics, chemistry, or related fields.
- B. Ability to move to and work at Johns Hopkins University, USA.
- C. Track-record of first-author publications and presentations. A minimum of three peer-reviewed, first-author publications must be accessible by the *S4E* team.
- D. Experience in reactor engineering or chemical kinetics, and solid-state materials.
- E. Ability to lead research projects and collaborate with other experimentalists/computationalists.

Graduate students near the completion of their Ph.D. are welcome to apply.

Application Instructions

Submit a single PDF file via Interfolio named “*Lastname_Firstname_S4E_202501.pdf*” containing a cover letter, CV, and contact information for 3 references. The cover letter should address each point of the qualifications list explicitly (*i.e.*, A, B, C, ...). Provide ample examples and details where possible. Applications without explicit responses will not be reviewed.

OPTIONAL: DOIs for 3 recent and relevant publications can be included at the end of the packet. Questions can be sent to the *S4E* team (entropy4energy@jhu.edu); subject line must contain “S4E Post-Doc”.

Equal Employment Opportunity Statement

The Johns Hopkins University is committed to equal opportunity for its faculty, staff, and students. To that end, the university does not discriminate on the basis of sex, gender, marital status, pregnancy, race, color, ethnicity, national origin, age, disability, religion, sexual orientation, gender identity or expression, veteran status or other legally protected characteristic. The university is committed to providing qualified individuals access to all academic and employment programs, benefits and activities on the basis of demonstrated ability, performance and merit without regard to personal factors that are irrelevant to the program involved.