Post-Doctoral Positions

The University of Missouri, Columbia (http://missouri.edu/) is the flagship research institution in the State of Missouri and is one of the nation's top-tier R1 institutions and one of the 34 public universities to be members of the Association of American Universities and the only one in Missouri.

The Sustainable Energy Laboratory (SEL) (http://engineers.missouri.edu/park/) at the Department of Mechanical and Aerospace Engineering is currently searching for post-doctoral research associates with a Ph.D. degree in mechanical engineering (or other disciplines including material science, physics, chemistry, biology, or chemical engineering etc.) who have strong background and interest in thermal sciences/engineering, and/or materials processes/characterization.

Research Area:
High-temperature fluid (liquid metals) heat transfer; two-phase heat and mass transfer (boiling and condensation) in porous media; multi-scale phase change; molecular dynamics simulation; sustainable energy conversion and storage; thermoelectric; rechargeable battery; combustion; membrane distillation; nano-material processes/characterization

Requirements:
1. Ability to work in a team environment, oral and written communications skills in English and self-motivation with strong work ethic.
2. Proven record of research accomplishments through presentation scientific results at national meetings and in peer-reviewed journals.
3. Good knowledge in fluid mechanics, heat/mass transfer, numerical methods, material and/or manufacturing.
4. Experimental skill and lab experience including instrumentation, mechanical part designing/fabrication, hardware experiment, material processes/characterization, and/or optics is a big plus.
5. Experience in molecular dynamics simulations is a big plus.
6. Experience in using CFD codes (research codes, and/or commercial packages such as ANSYS Fluent, etc.) and grid generation packages is a big plus.
7. Programming skills using languages (C++, FORTRAN, Matlab, etc.) is a big plus.

The post-doctoral position are immediately available. The opening will be closed as soon as it is filled. Funding is available for two years; however, initial appointment will be for one year and may be extendable.

Interested candidates should send a cover letter describing candidate research experience, research plan and career goal; and resume (including references); academic transcripts to Prof. Chanwoo Park by email. All documents and communications are expected to be in English.

Dr. Chanwoo Park, Ph.D.
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Documents required:
- Cover letter describing candidate research experience, research plan and career goal
- Resume or CV including references
- Academic transcripts (B.S., M.S., Ph.D.)
- Three (at least) reference letters