

Postdoctoral Fellow Positions on
Predictive simulations of physics and chemistry at extreme conditions

Prof. Marisol Koslowski
Purdue University

Purdue University is seeking applications from outstanding candidates for Postdoctoral Scholar positions to work on mesoscale simulations of physical and chemical processes at extreme conditions of pressure and temperature. The successful candidate(s) will join a multidisciplinary team including modelers and experimentalists working at multiple scales and collaborate at Purdue, Los Alamos National Laboratory and Stanford University. The efforts will involve developing and implementing new methods for mesoscale simulations on high-performance computing platforms for predictions using finite elements or hydrocodes. Topics of interest include: shock-induced chemistry in high-energy density materials, role of defects, interfaces and surfaces on hot-spot formation, fracture, and plasticity.

Qualifications. Candidates should have earned a doctorate in Physics, Chemistry, Materials or Mechanical engineering or a related field. The successful candidate will have experience in phase fields or finite elements methods. Experience with high-performance scientific computing is desirable. A strong background in one or several of these fields is desirable: atomistic materials science, materials physics, micromechanics.

Application process. Applicants must provide a detailed resume including education, experience and qualifications; they should also include the names of three potential references. Applications from women and minorities are strongly encouraged. Applicants should submit the application materials electronically to:

- Prof. Marisol Koslowski: Email: marisol@purdue.edu

Evaluation of candidates will begin immediately, and will continue until the position is filled.

Purdue University is an EOE/AA employer. All qualified applicants will receive consideration for employment without regard to race, religion, color, sex, national origin or ancestry, genetic information, marital status, parental status, sexual orientation, gender identity and expression, disability or status as a veteran.