



HENRY SAMUELI SCHOOL OF ENGR. & APPLIED SCIENCE
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Subject: Ph.D. Student Position in Computational Materials Science at UCLA

The Physics of Amorphous and Inorganic Solids Laboratory (PARISlab) at University of California, Los Angeles (UCLA) is seeking an outstanding candidate for an open Ph.D. position. Special emphasis is placed on recruiting talented, self-motivated candidates with a solid background in physics, condensed/soft matter, materials science, chemical engineering or chemistry. Experience in programming and simulations (classical or *ab initio* molecular dynamics, density functional theory, mesoscale simulations, Monte-Carlo, etc.) is mandatory.

The successful candidate will work on multi-scale simulations of disordered media, ranging from structural glasses to colloids, gels, and granular materials. The research project will focus on elucidating the relationship between inter-particle interactions, structure, and macroscopic properties. Properties of interest include, but are not limited to: aggregation, jamming, relaxation, mechanical properties, and creep. Additional activities may involve programming, data analysis, and experimental tests (nano-indentation, rheometry, etc.). Active collaborations with the other members of the laboratory (both in modeling and experiments) is encouraged and expected. For consideration, applicants should possess the following qualifications or attributes: (a) a B.S. or M.S. degree from a reputable university in a related thematic area and an interest in pursuing a research career, (b) a strong interest in programming and computational approaches, (c) a fundamental understanding of material science, thermodynamics, and inorganic chemistry, and (d) an interest in working in an interdisciplinary research environment.

Applicants with relevant experience will be given special preference. The successful candidate will be expected to take personal initiative to structure tasks to meet project goals, network and communicate with other partners involved in the project, mentor undergraduate students, author innovative/impactful publications, and report results at international conferences. The position is funded for a period of three years. If you meet the above requirements and are interested in this position, please provide by email (bauchy@ucla.edu) a detailed resume, a short personal statement explaining your scientific and research interests, and contact information for three referees in support of your application (as PDF files).

Contact:

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