Faculty Project: Physics

Title of Project: Laboratory research experience in granular fluids, transport, and robotics

Main Contact: Arshad Kudrolli, akudrolli@clarku.edu, 508 793 7169

Deadline: March 31st, 2017

Duration: Minimum of 180 hours

Location: Clark University Physics Department

Position Description:
This experience is a project to be completed over an 8-10-week period in summer ideally starting June 1 in my Complex Matter and Nonlinear Physics Research Laboratory. The successful students will collaborate with other undergraduate, graduate and post-doctoral researchers in doing research on fluid dynamics and granular matter. They will learn how to develop a research project related to fluid dynamics and erosion, and deliver oral and written reports on the topic. The student is expected to prepare a written report at the end of their project as well as make an oral presentation to the members of the physics department. Further they will have an opportunity participate in a national research meeting on this topic to be held during the summer to learn more broadly about the field.

Qualifications:
Required qualifications include:

1. Calculus based introductory physics sequence with labs (Physics 120 and 121 or equivalent).
2. Intermediate level course on Waves and Optics (Phys 130 or equivalent).

Further strongly desired background includes: Course on fluids or simulations (Phys 167 or Phys 127). Physics lab experience.

Housing: Housing will not be provided. Students are responsible for finding their own housing.

For more info: Please, visit: http://physics.clarku.edu/~akudrolli/

Funding: $2500 Available through the LEEP Fellows Program.

How to Apply:
Send resume and cover letter discussing interest and motivation to Arshad Kudrolli via email akudrolli@clarku.edu on or before March 31st

To apply for LEEP Funding and to be considered as a LEEP fellow, students must secure the position FIRST and complete the LEEP Fellows Application Process by March 3 (for early decision) or April 14th. Students will be required to submit a resume, cover letter, and a proposal outlining how they will complete their project.
Additional position information is available through Clark Recruiter. (Recommendation letters should be emailed directly to rmaddox@clarku.edu)

**About the Organization:**
Clark's academic community has long been distinguished by the pursuit of scientific inquiry and humanistic studies, enlivened by a concern for significant social issues. Among many other scholarly endeavors, Clark contributes to understanding human development, assessing relationships between people and the environment, and managing risk in a technological society.

Clark is dedicated to being a dynamic community of learners able to thrive in today’s increasingly interrelated societies. The University maintains a national and international character, attracting high-caliber students and faculty from all quarters of the globe.