Postdoctoral and Ph.D. positions (Spring 2021 to Fall 2021)

We welcome qualified candidates to fill 2 Postdoctoral positions and 2 PhD positions at Johns Hopkins University in the area of multiphase flow physics under the supervision of Prof. Rui Ni (https://me.jhu.edu/fluidtransportlab/). Successful applicants will have the opportunity to develop state-of-the-art experimental methods and use them to measure and understand various aspects of multiphase flows. Candidates with a strong background in theoretical and computational analyses of multiphase flows are also encouraged to apply.

Research Topics (from left to right):
1. Transport of lunar dust particles in various environments (Sponsor: NASA)
2. The dynamics of non-spherical lunar particles and bio-mass particles (Sponsors: NASA and DOE)
3. Entrainment, deformation, and breakup of bubbles in intense turbulence (Sponsors: NSF and ONR)
4. Active multiphase flows (fish schooling in turbulence) (Sponsor: ONR)

Applicants for postdoctoral positions should have, or be expected to obtain, a Ph.D. degree in fluid dynamics or heat transfer areas from an Engineering, Mathematics, or Physics department, and a proven track record of high-quality publications. The duration is for two years, with a possibility of renewal depending on the availability of funds.

Applicants for Ph.D. positions should hold a B.S. or M.S. degree in Engineering, Mathematics, Physics, or a related field and are highly motivated to work in an interdisciplinary environment. Although preference will be given to applicants with prior experience in experimental fluid dynamics, this is not required.

Please contact Rui Ni (rui.ni@jhu.edu) to apply for these positions or ask any questions you may have.