



Research Associate/Assistant positions available on Granular Flows at the Department of Chemical Engineering, IISc Bangalore.

Granular materials are widespread in industries and nature, yet their behaviour is not well understood. Much of the difficulties in studying granular systems stem from the opacity and the dissipative characteristics of the grains. Consider a heap of grains that is encountered in day-to-day life and can be easily prepared by pouring grains on a surface. Even for a system as simple as this, our current understanding falls short in explaining/modelling the flow characteristics in the bulk region and the stress dip observed at the centre of the heap where the height of the heap is maximum [1, 2].

We have open research positions available at various levels depending on the candidate's academic profile and experience to investigate the dynamics of a granular heap using experimental, theoretical, or computational techniques. Prior experience with experiments in particulate flows or discrete element simulations is desirable but not essential. Interested candidate should email me (aqibkhan@iisc.ac.in) with your CV enclosed preferably by the 30th of July 2024. The salary will be as per DST norms.

Candidates interested in proposing a research topic based on their interest are most welcome. Please feel free to write to me expressing your interest.

We also have open internship positions (for final or 3rd year undergraduate or master's degree candidate) throughout the year for short durations of at least 6 weeks.

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- 1) Krishnaraj KP, Nott PR. *Journal of Fluid Mechanics*. 2024; 980: A10.
- 2) Vanel, L., Howell, D., Clark, D., Behringer, R.P. & Clément, E. 1999. *Phys. Rev. E* 60, R5040–R5043.