



A VAMSI KRISHNA REDDY



Post-Doctoral Fellow

Chemical Engineering

Indian Institute of Science, Bangalore

SHORT BIO

I am from Kurnool, Andhra Pradesh. I did my schooling at Kurnool and Intermediate from Vijayawada, Andhra Pradesh.

I like to work on the flow of gases moving at very high velocities using numerical simulations. I am also interested in comprehending the nature of granular particulate systems, which are large collections of solid particles.

CURRENT RESEARCH

Currently, I am working on the turbulence effects of hypersonic flow.

CONTACT

PHONE: 9494046915

EMAIL: vamsianyam@iisc.ac.in

EDUCATION

PhD, Chemical Engineering

Indian Institute of Technology, Guwahati

December 2014 – April 2021

Thesis title: Flow characteristics and clogging phenomena in granular systems involving non-spherical particles

Thesis Advisor: Prof. K Anki Reddy

M. Tech, Chemical Engineering

Andhra University College of Engineering (A)

December 2012 - November 2014

B. Tech, Chemical Engineering

Sri Venkateswara University College of Engineering

September 2008 - May 2012

SELECTED PUBLICATIONS

A Vamsi Krishna Reddy, K Anki Reddy, Iker Zuriguel, Hiroaki Katsuragi, Clogging phenomena in a system of asymmetric dumbbells, *J. Stat. Mech.*, 6, 063201, (2021)

A Vamsi Krishna Reddy, Sonu Kumar and K Anki Reddy, Granular particle-shape heterogeneous mixtures discharging through a silo, *J. Fluid. Mech.*, 912, (2021)

A Vamsi Krishna Reddy, Sonu Kumar, K Anki Reddy and Julian Talbot, Granular silo flow of inelastic dumbbells: Clogging and its reduction, *Phys. Rev. E.*, 98, 022904, (2018)