

# Ram C. Dhuley



Dr. Ram C. Dhuley is a Staff Engineer in the Cryogenics Sector of Fermi National Accelerator Laboratory's Applied Physics and Superconducting Technology Division. He is currently Principal Investigator/Co-principal Investigator on two DOE HEP and NNSA projects for developing compact electron beam accelerators for industrial applications. These accelerators will use cryocooler conduction-cooled superconducting RF cavities – a novel technology first demonstrated by Dr. Dhuley's team at Fermilab in 2019. Ram is also playing leading roles in several cryogenics projects at Fermilab including sub-Kelvin cryostat design for Cryogenic Dark Matter Search Experiment (SuperCDMS), cryogenic distribution system design for Proton Improvement Plan II (PIP-II), cryogen free superconducting magnet for the Fermilab Accelerator Science and Technology (FAST) facility, and a large  $3\text{He}$ - $4\text{He}$  dilution refrigerator for Fermilab's Superconducting Quantum Materials and System (SQMS) center.

Prior to joining Fermilab as a Bardeen Fellow, Dr. Dhuley completed a PhD in Mechanical Engineering from Florida State University in 2016 and an undergraduate degree from Indian Institute of Technology Bombay, India in 2010. Ram has co-authored more than 30 publications on various topics in cryogenic engineering for superconductivity applications. He is a lifetime member of the Cryogenic Society of America (CSA) and the Indian Cryogenics Council. He was awarded the Student Meritorious Paper Award at the 2015 Cryogenic Engineering Conference (CEC) and the 2019 William E. Gifford Award by the CSA.

Having spent more than a decade in cryogenics research and development, Dr. Dhuley has garnered a profound liking of teaching and instruction as well as service to the cryogenics community. He has co-instructed CSA's short courses on cryogenics at the 2019 and 2021 CEC, and taught a graduate-level class on Cryogenic Engineering at the Summer 2021 session of United States Particle Accelerator School. Dr. Dhuley regularly performs peer-review service for the journals *Cryogenics* and *IEEE TAS*, and will serve as a Technical Editor for the 2021 CEC proceedings.