Vijay Vedula
Faculty Email:
vv2316@columbia.edu
Lab:
Cardiovascular Biomechanics Research Lab
Project Title:
Fluid-structure-interaction (FSI) modeling of heart valves
Description:
We are interested in developing, implementing, and testing novel numerical methods for simulating blood flow interactions with cardiac valves. The student will work with the PI and a postdoc in the lab. The student will gain in-depth knowledge of various numerical methods, including immersed boundary methods, thin shell mechanics, and finite element analysis, and will be exposed to the biomechanics of cardiac valves and patient-specific modeling.
Location of Research:
Hybrid (both Remote and On-Site)
# of hrs/week:
40
Department/Program:
Mechanical Engineering
Eligibility:
MS
To apply, please contact:
vv2316@columbia.edu

**Faculty Name:**