

Dennis R. Trumble, Assistant Research Professor

Department of Biomedical Engineering, Carnegie Mellon University
Ph.D., 2010, Carnegie Mellon University



Professor Trumble's professional career to date has focused on the design and development of implantable medical devices, mostly for cardiac assist purposes. Devices for which he holds patents include the TandemHeart centrifugal blood pump, a muscle energy converter, a vessel repair mechanism, a right heart assist device, a torsion-based cardiac assist device, and an artificial tendon. He also has considerable experience in hemodynamic monitoring, multi-scale computational modeling, skeletal muscle training, muscle-powered cardiac assist, axial-flow blood pumps, and sternal closure methods. His current research is focused on developing these innovative devices to realize their clinical impact. His other research interests include the neural basis for cognition, the nature of consciousness, animal awareness, and the psychology of belief and decision making.

