

Bio of Satya Karri Ph.D



Satya Karri joined ViVitro Labs as a Biomedical Engineer/Director of Laboratory Services in 2010. He is responsible for the development of test plans and test reports for regulatory submissions. Additionally, he is involved in cross-disciplinary design teams for the development of medical device products used for the performance evaluation of cardiovascular devices.

Prior to joining ViVitro Labs, Satya held several positions encompassing several areas of research.

1. ViVitro Labs, Inc. 2010 – Present
Biomedical Engineer/Director of laboratory services
2. James Madison University 2009 - 2010
Post Doctoral Research Associate
3. Virginia Tech. 2004 – 2009
Graduate Research Assistant
4. UT-Arlington 2000 – 2002
Graduate Research Assistant

At James Madison University, he established a state of the art fluid mechanics laboratory with stereo particle image velocimetry (Stereo PIV) capability. During his doctoral studies at Virginia Tech, he published numerous papers in the area of cardiovascular hemodynamics dealing with fundamental physics of diseased arteries and flows past medical devices such as stents and heart valves. For his research, he was awarded the Paul E Torgerson research excellence award.

During his graduate program at UT Arlington, his research encompassed areas of fracture mechanics and composite materials.

Satya is well experienced in a multitude of engineering areas such as cardiovascular hemodynamics and fracture mechanics. He is well versed in several engineering techniques such as PIV, CFD, FEA and instrumentation.

Fluid Mechanics: PIV, High speed imaging, shadowgraphy, Transient CFD simulations and instrumentation.

Material Testing: Material testing for failure with controlled stress or strain rate as well as scanning electron microscopy.

Programming Skills: Matlab, Labview, C and Fortran

Other skills: Digital signal processing, solid modeling, proposal writing and project management experience.

ViVitro Labs offers industry-leading cardiovascular device test equipment, related testing and consulting services. Since 1984, we have worked closely with our clients – leading universities, medical device manufacturers and regulatory agencies – to support their research, regulatory and production requirements.

Companies from all over the world rely on ViVitro Labs for their research needs. Our products are manufactured in an ISO 13485-accredited facility, and meet CE marking directives, easing the burden of compliance for regulatory testing.

ViVitro Labs offers testing services following GLP principles in an ISO/IEC 17025 compliant laboratory to meet the ISO 5840 standard and FDA guidelines for CE, 510K, IDE or PMA supplements. Investigations are performed regularly for any product development and regulatory requirements. Clients utilize our services for prompt turnaround and excellent third-party verification. ViVitro is a known and trusted source of quality products and services providing 25 years of experience assisting its clients to complete successful testing and regulatory quality compliance. With hundreds of publications referencing the ViVitro products, they have become a worldwide standard for heart valve testing. ViVitro Laboratory has become a preeminent source for providing clients with reliable and accurate products assessment for design and regulatory submission.

For more information on Satya Karri or ViVitro Labs, visit our website at www.vivitolabs.com. Satya can be contacted directly at +250-940-2429 or skarri@vivitolabs.com.