Transforming Institutional Practices Through Innovative Approaches in Stem Teaching and Learning

Abstract: In this talk, participants will have the opportunity to learn how to incorporate a variety of educational frameworks to make innovations in STEM pedagogical practices that can help enhance student learning. Specifically, participants will engage in brainstorming strategies to experience frameworks such as design thinking for global problem solving to redesigning educational frameworks through active learning spaces, experiential learning and learning by doing approaches. Participants will also recognize that not only do these integrated STEM approaches provide an opportunity for a shared collaborative experience for students, teachers and faculty to develop professionally but also will help to give them an opportunity to become change agents to transform their respective institutional and organizational practices.

Short Bio:
Dr. Padmanabhan Seshaiyer received both his BS in Engineering and his Master of Science in Mathematics from Birla Institute of Technology & Science in 1994 and his Ph.D. in Applied Mathematics from University of Maryland (Baltimore County) in 1998. Currently, Dr. Seshaiyer is a Professor of Mathematical Sciences and Associate Dean for Academic Affairs (College of Science) at George Mason University. Dr. Seshaiyer’s research interests include Computational Mathematics, Computational Biomechanics, and STEM Education. He has published over 100 peer-reviewed journal articles and proceedings, authored two graduate texts, and acquired over $8 Million in grant funding to promote multidisciplinary research, training and mentoring programs for students, teachers and faculty.

Refreshments before the talk and socializing following the talk
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