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Dr. Padmanabhan Seshaiyer is a tenured Professor of Mathematical Sciences at George Mason University and serves as the Director of the STEM Accelerator Program in the College of Science as well as the Director of COMPLETE (Center for Outreach in Mathematics Professional Learning and Educational Technology) at George Mason University in Fairfax, Virginia. His research interests are in the broad areas of computational mathematics, scientific computing, computational biomechanics and STEM education. In particular, his research in computational mathematics includes the development of new analytical techniques and efficient computational algorithms to obtain numerical solutions to differential equations describing multi-physics interactions. His research in computational biomechanics includes developing, extending and applying mathematics for the purposes of better understanding the physiology and pathophysiology of the human vascular system. Integrated with the research plan is a STEM education plan where the primary goal is to teach students and teachers at all levels to apply well-developed research concepts, to fundamental applications arising in STEM disciplines. During the last decade, Dr. Seshaiyer initiated and directed a variety of educational programs including graduate and undergraduate research, K-12 outreach, teacher professional development, and enrichment programs to foster the interest of students and teachers in STEM at all levels. During this time he received multiple grants from several agencies, including the National Science Foundation, the National Institutes of Health, Whitaker Foundation, Texas Advanced Research Program, Virginia Department of Education and State Council for Higher Education in Virginia. In addition to his research accomplishments, Dr. Seshaiyer contributed extensively to teaching and won several prestigious awards, including the President's Excellence Award in Teaching which is the highest award for teaching offered at two different institutions, the faculty mentoring excellence award in 2013 and the GMU Alumni Faculty of the Year in 2014. He has delivered keynote and plenary talks at several national and international meetings. He is also one of the Nifty-Fifty speakers and an X-STEM Symposium Speaker for the USA Science and Engineering Festival invited for a fourth time and also has given two TEDx talks, the most recent one being "The M in STEM". He serves on several prominent local and national organizations including a newly formed VA-STEM learning network; the Virginia Mathematics and Science Coalition; the WashingtonExec STEM Council; the LEGO Education Advisory Panel (LEAP) and the Northern Virginia MATHCOUNTS board. In 2013 he was elected both as a new Councilor for the Mathematics and Computer Science Division of the Council on Undergraduate Research as well as the US National Commission for Mathematics Instruction by the National Academy of Sciences. He is also actively involved in multiple global STEM collaborative projects and training programs that engage students and faculty from various countries including Tanzania, Suriname, Philippines, Myanmar, Tunisia, India, South Korea and a more recently formed Latin-American Consortium that brings together researchers from multiple countries.

In summary, Dr. Seshaiyer's contributions have included directing two major funded centers of excellence; mentoring research projects for over 140 students at all levels; publishing over 90 peer-reviewed journal articles and proceedings; authoring two graduate texts (one in Numerical Analysis and another under contract on mathematical modeling for teachers); acquiring over \$8 Million in grant funding (both state and federal) to promote multidisciplinary research, training and mentoring programs for students, teachers and faculty; directing over 20 new initiatives to accelerate STEM learning in formal and informal environments; developing global partnerships with over 12 countries for student and faculty exchange programs; leading new State-wide and Federal consortiums in teacher PD; winning over 20 individual teaching, mentoring as well as program awards; delivering over 275 invited talks both nationally and internationally; being selected as a member of 5 prestigious National organizations and; with accomplishments featured through more than 50 media news coverage articles and stories. More details about his work can be found at: <http://math.gmu.edu/~pseshaiy/outreach.html>.