Science and Engineering Research Board (SERB)

New Program Advisory Committee: Exponential Technologies

"If I take 30 steps linearly, I get to 30. If I take 30 steps exponentially, I get to a billion." Ray Kurzweil (American Inventor and Futurist)

Exponential technologies, doubling up in capability and/or performance, represent outstanding innovations that are rapidly blurring traditional definitions of discovery and inventions, and usher cutting edge research with a potential to positively affect billions of lives through disruptive economic and lifestyle effects. Exponential technologies essentially seek exponential change in work ethos, exponential research setting with a future-focused strategy, to enable exponential thought leaders in building exponential enterprises concerning concepts and products of tomorrow.

New research vertical of SERB will challenge Indian investigators to blend additive manufacturing, augmented and virtual reality, digital biology and 3D printing, data science, medical tech, bionanotechnology, robotics, to name a few, and come up with outstanding transdisciplinary collaborative projects. The end-goal of these investigations should necessarily be an exponential growth of future technologies as applicable to societal challenges and national missions, with a chance of creating truly remarkable and sustainable solutions, preferably through collaborative research cluster approach (at least 3 nodes).

This PAC will accept proposals under **Core Research Grant** submission starting from **February 1- March 9, 2020**.