

**NATIONAL CENTER FOR ELECTRON BEAM RESEARCH AT
TEXAS A&M UNIVERSITY – EMPOWERING DECISION MAKERS
AND ACCELERATING THE ADOPTION OF ALTERNATIVE
TECHNOLOGIES**

SURESH D. PILLAI

National Center for Electron Beam Research, Texas A&M University, USA

The NCEBR at Texas A&M University has over two decades worth of expertise in electron Beam (eBeam) and X-ray technologies. Since 2002 the focus of the Center has been on advancing eBeam and X-ray technologies to improve the quality of lives of humans on earth and potentially elsewhere. The research and educational activities have focused on using alternative technologies for “cleaning, healing, feeding and shaping this world and beyond”. The NCEBR brings together transdisciplinary group of researchers to advance eBeam and X-ray technologies. A unique aspect of the activities of NCEBR is its strong focus on empowering entrepreneurs in investing in this technology. These activities have resulted in the adoption and expansion of these technologies by the private industry in the US, Mexico, and Pakistan. NCEBR has demonstrated the utility of eBeam technology for phytosanitary treatment of imported fruits across international borders as well as identifying the key hurdles in large scale adoption of these alternative technologies. Besides, the use of the technology for food irradiation, NCEBR has been at the forefront of demonstrating the utility of these technologies in environmental remediation especially addressing the remediation of “forever chemicals” such as PFAS and other algal toxins. NCEBR is currently assisting several Latin American countries in performing financial and technical feasibility analyses to assist them in switching to alternative technologies. This talk will highlight success stories of accelerators for research and sustainable development.