



# Washington University in St. Louis Forum for India

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Ramesh Hariharan is the CEO of Strand Life Sciences and an Adjunct Professor at the Indian Institute of Technology. Ramesh studied computer science at IIT Delhi and subsequently at the Courant Institute of Mathematical Sciences and the Max Planck Institute for Informatics, before joining the faculty of the Indian Institute of Science.

Ramesh's expertise lies in the area of Design and Analysis of Algorithms for problems related to sequences and graphs. Fascinated by the use of computer algorithms in biology and medicine, Ramesh and four colleagues founded Strand Life Sciences in 2000. Strand was among the first examples of a spin-off from a major academic university in India. At Strand, Ramesh has led teams building tools for the analysis of data from life science experiments; these tools are widely used and have received more than 20,000 citations in the literature. Strand is also a pioneer of genomics-based precision medicine in India, having helped ~10,000 individuals achieve a genomic diagnosis. Strand's experience with genomic diagnosis is captured in Ramesh's book "Genomic Quirks", which illustrates how computer science helps connect the world of clinical observation to the world of molecular biology through first-hand case studies.

Ramesh is a fellow of the Indian Academy of Sciences and the Indian National Academy of Engineering.