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Prof. Saha's research group specializes in thin films and heterostructure nanomaterials growth, epitaxial nitride heterostructure of dissimilar materials, plasmonics, phase change materials, and thermoelectric devices. Prof. Saha has published over 68 research papers in international peer-reviewed journals and holds one US and two Indian patents. Three Ph.D. students and three MS students have completed their thesis under Prof. Saha's supervision.

Prof. Saha is the recipient of the Young Scientist Research Award from the Department of Energy, India, the Sheikh Saqr Career Award Fellowship, and the Purdue University College of Engineering Outstanding Graduate Student Award (2014), among others. He currently serves as the Editor of the Solid State Communications journal, Warden of the JNCASR student residence, and coordinator of the summer research fellowship project in Physical Sciences of JNCASR.