

# School of Engineering & Applied Science

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The National Science Foundation recently awarded a Washington University in St. Louis professor nearly \$300,000 for continued research about cloud-based computing systems.

**Raj Jain**, the Barbara J. & Jerome R. Cox, Jr. Professor of Computer Science at the School of Engineering & Applied Science, was awarded the three-year grant, which will allow his lab to zero in on how to keep cloud-based computing functioning at its best and more resilient. Jain's research will use artificial intelligence (AI) to find architectural faults in cloud systems, including slow downs in service.



Raj Jain

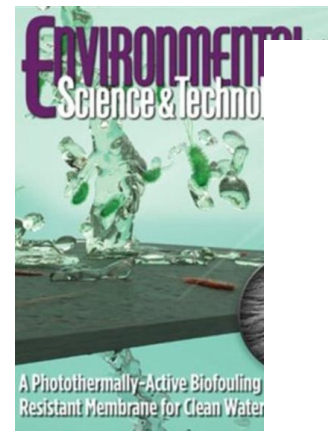
Jain says the research will benefit a number of cloud applications, including telecommunications and real-time applications such as healthcare and smart grid systems.

"We're keeping track of what the latest trends and concerns are when it comes to the clouds," said Jain. "Using machine learning, we want to be able to determine if something is faulty right away, or predict when something is going to break down to prevent an outage."

The School of Engineering & Applied Science at Washington University in St. Louis focuses intellectual efforts through a new convergence paradigm and builds on strengths, particularly as applied to medicine and health, energy and environment, entrepreneurship and security. With 96.5 tenured/tenure-track and 33 additional full-time faculty, 1,300 undergraduate students, 1,200 graduate students and 20,000 alumni, we are working to leverage our partnerships with academic and industry partners — across disciplines and across the world — to contribute to solving the greatest global challenges of the 21st century.

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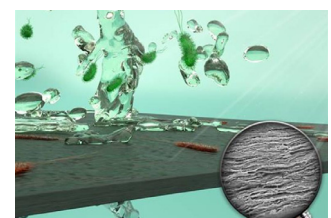
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