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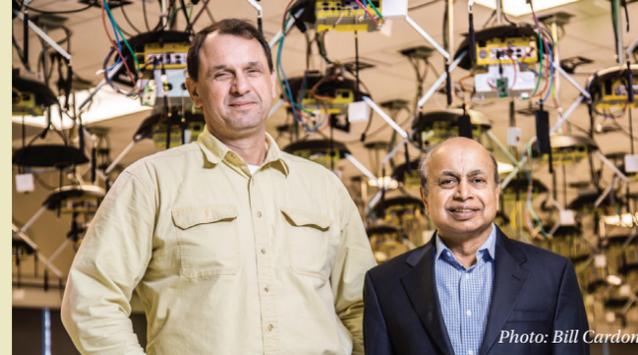


Photo: Bill Cardoni

WINLAB's Ivan Seskar (left), associate professor for information technology, and director and Distinguished Professor Dipankar "Ray" Raychaudhuri (right) lead Rutgers University-New Brunswick's COSMOS research team.



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NEW WAVE OF MOBILE TECHNOLOGY TO PUSH THE LIMITS OF WIRELESS NETWORKING

By 2020, the number of internet-connected devices is expected to grow to 20 billion, creating an urgent need for infrastructure that can rapidly process all that data. Under its **Platforms for Advanced Wireless Research** initiative, the National Science Foundation and an industry consortium are investing \$100 million in the next seven years to build a set of wireless networks for U.S. researchers to test new ways of boosting internet speeds to support data-intensive applications in robotics, immersive virtual reality, and traffic safety.

Researchers at Rutgers, Columbia, and New York University, in partnership with New York City, Silicon Harlem, City College of New York, and the University of Arizona, will lead one of two initial test bed platforms in the U.S. Based in New York City, the **COSMOS** platform will allow researchers to test entirely new classes of wireless applications, improving network performance and creating city-focused applications such as smart intersections that can process massive data in real-time. soe.rutgers.edu/cosmos

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58,000
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RESEARCH
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As the state's premier public research university, Rutgers is delivering top-quality education, cutting-edge research, exceptional health care, and community service that improves the quality of life for thousands of people every day in New Jersey and beyond.

Rutgers fuels New Jersey's economy and supports the state's businesses and industries by educating tomorrow's workforce, advancing innovative technologies, and providing services and solutions for everyday problems.

At Rutgers, we believe that partnerships are vital in leading our collective economic growth. The university successfully collaborates with business and industry partners across the state, engaging more than 330 companies in pioneering research that contributes to the medical, social, environmental, and cultural well-being of New Jersey.



83%
OF STUDENTS
ARE NEW JERSEY
RESIDENTS



GENERATES
\$7 FOR N.J.'S
ECONOMY
FOR EVERY
\$1 OF STATE
INVESTMENT



Photo: Cameron Bowman

NEW CLINICAL RESEARCH CENTER MAKES RESEARCH MORE ACCESSIBLE & CONVENIENT

Rutgers Robert Wood Johnson Medical School's new **Adult Clinical Research Center** (CRC) offers over 11,000 square feet of dedicated space to support clinical and translational research and provide sponsors and collaborators access to the clinical expertise, patient networks, and research talent available at the medical school.

The CRC is equipped with four examination rooms, four long-stay rooms, two infusion rooms, a phlebotomy station, office space, and a pulmonary function lab. It also includes an investigational drug pharmacy with drug storage capability.

The center allows researchers to share resources to lower costs and makes it more convenient for trial sponsors and participants to access equipment independent of a hospital's availability and schedule. The CRC aims to help bring new therapies, tests, and treatments more rapidly to the community. rwjms.rutgers.edu/research/crc

\$5.2B
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ECONOMIC
ACTIVITY
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& LOCAL ECONOMIES



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