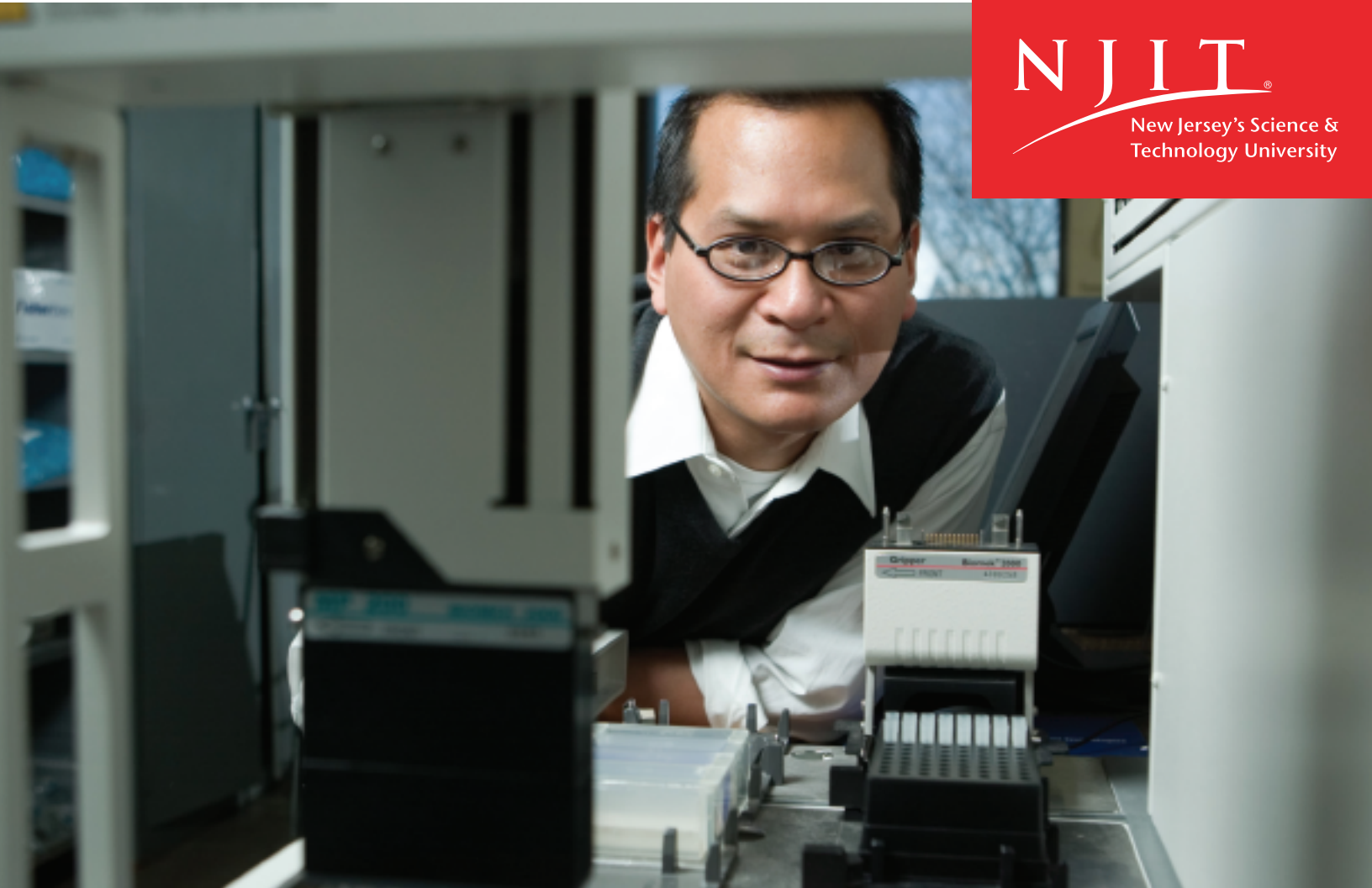


NJIT[®]

New Jersey's Science &
Technology University



RESEARCH AT THE EDGE IN KNOWLEDGE

The NJIT strategic plan's challenge to improve university rankings in research and intellectual property development has been met in a variety of ways. Research funding has grown from \$69 million to \$90 million in the past 5 years, and university patents now number more than 90 with 123 assets licensed for commercialization. But one of the most exciting measures of growth has been the nine young faculty members receiving prestigious NSF CAREER grants in the last five years, as compared to five in the previous decade:

- The most recent recipient is **Edgardo Farinas**, assistant professor of chemistry and environmental science, for his research methodologies for enzyme design to create novel and practical biocatalysts.
- Three winners came from Biomedical Engineering: **Treena Livingston Arinzeh** who holds a prestigious Presidential Early Career Award for Scientists and Engineers (PECASE) for her work in tissue engineering and adult stem cells; **Tara Alvarez**, for her work with eye movements and brain injury; and **Brian Pfister**, for his work in rapid axon stretch growth.
- Three CAREER recipients were from the Department of Physics: **Andrei Sirenko** to support his work with nanostructures and optoelectronic devices; **Serguei Savrasov**, now at the University of California at Davis, to support his work on the properties of strongly correlated materials; and **Carsten Denker**, now at the Astrophysical Institute in Potsdam, Germany, for his work with imaging technologies for solar physics.
- **Symeon Papavassilou**, electrical engineering, received an award for his work in mobile wireless networks.
- **David Mendonca**, computer science, earned a CAREER award to further his work in improving public understanding of how to improvise in emergencies. The work builds upon his prior research on the response to the 2001 World Trade Center attack and on managing the nation's critical infrastructures.



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