

Ramapo College of New Jersey

I. RESEARCH AND PUBLIC SERVICE ACTIVITIES

Ramapo faculty, working with the Ramapo College Foundation, private foundations, and the Office of Grants Administration, have been aggressive in seeking out funding sources and applying for monies to pursue public service and research projects which are consistent with the College's mission and broad educational goals. Externally funded projects fall into the categories of enhancement of teacher education, undergraduate student and curriculum development, increasing environmental/sustainability awareness, and scholarly research. The National Science Foundation, the National Endowment for the Humanities, the US Department of Education, as well as State agencies and local and national foundations have supported this research. During FY 2007, Ramapo College received external funding for the following fifteen projects:

1. **EPA Sustainability Education, funded by the United States Environmental Protection Agency.** This grant supports the act or practice of learning how to achieve global and local sustainable communities. The desired outcome is an informed, engaged citizenry with the social, economic, and ecological literacy, creative problem-solving skills, and commitment necessary to implement individual and cooperative actions to further this end. (\$248,000)
2. **Governor's School of International Studies,** funded by the New Jersey Commission on Higher Education. This is an ongoing one-month residential summer program for 100 gifted and talented high school seniors. The program includes a trip to Quebec City, participation in the ICONS computer simulation of international issues, and a final summit at the United Nations. (\$252,271)
3. **Trio Student Support Services,** funded by the US Department of Education. To enhance the academic performance, retention and graduation rate for students with disabilities. (\$1,260,805)
4. **Educational Opportunity Fund,** funded by the New Jersey Department of Education. The EOF program provides services and support to New Jersey students who, while lacking financial resources and academic preparation, can demonstrate promise, a high level of motivation and ability, and the potential to succeed in college. These funds are used to provide financial aid grants and specialized services, such as basic skill instruction, counseling and advisement, tutorial services, and career preparation to students. (\$886,034)
5. **Violence Prevention Project,** funded by the U.S. Department of Justice. The project's focus is violence prevention, intervention and prosecution of domestic violence, sexual assault, and stalking. (\$30,009)
6. **Upward Bound Math-Science Center,** funded by the US Department of Education. Forty low-income high school students whose parents have not earned a baccalaureate degree are enrolled each year in this program for academic enrichment, remediation and counseling. The objective is to prepare these students for success as math and science majors in college. (\$1,022,972)
7. **College Bound Program at Ramapo,** funded by the New Jersey Commission on Higher Education. The objective is to prepare these students for success in college. (\$141,180)
8. **Senior Environmental Experiences (SEE),** funded by the National Science Foundation. This project operates out of the Meadowlands Environment Center. The three year project will produce a series of interactive science experiences using Internet videoconferencing to connect senior citizens at community centers and assisted living facilities with environmental experts at the Meadowlands for live discussions of environmental concepts and issues. The project will reach approximately 4,500 seniors in 32 centers throughout New Jersey. (\$317,602)

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9. **Nursing Scholarship**, funded by the Department of Health and Human Services. This scholarship provides opportunities for disadvantaged students. (\$141,569)
10. **Nursing Camp Grant**, funded by the New Jersey Department of Education. (\$90,000)
11. **Robots to Enhance Liberal Arts**, funded by the National Science Foundation. The mission of the Robotics program is to provide opportunities to develop novel ideas into projects that have the potential to lead to advanced, intelligent robotic systems. The Robotics program supports fundamental research and related education activities in robotics, i.e., machines with sensing, intelligence, and mobility. The emphasis is on systems operating in unstructured environments with a high level of uncertainty; interaction and cooperation of humans and robots; and advanced robotic sensory systems. (\$107,223)
12. **Marsh Access**, funded by the National Science Foundation. Ramapo will use the NSF grant to further develop, test and implement its Marsh Access program, a national model for accessibility and assistive technology that adapts science programs for people with disabilities at the NJMC's Meadowlands Environment Center. (852,000)
13. **Meadowlands Project**, funded by the New Jersey Meadowland Commission. The New Jersey Meadowlands Commission and Ramapo College of New Jersey entered into a partnership in 2003, to develop a comprehensive environmental education program for schools and the general public. (\$2,944,223)
14. **Sustainable Practice**, funded by New Jersey Board of Public Utilities. To support the promotion of sustainability education which recognizes that our actions today affect our prospects for tomorrow, and increasingly, these actions will affect the quality of life and prospects for future generations. (\$74,900)
15. **Robert Noyce Scholarship Program**, funded by the National Science Foundation. The program provides scholarship and support services for teacher education students specializing in math and science who spend the first two years of their teaching career in a high-needs district. (\$409,720)

Major Research and Public Service Activities	
R&D Expenditures: FY2007	
Federally Financed Academic R&D Expenditures	\$878,120
Institutionally Financed Academic R&D Expenditures	\$77,628
Total Academic R&D Expenditures	\$955,748