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FISCAL IMPACT REPORT

ORIGINAL DATE 01/29/07

SPONSOR Gutierrez LAST UPDATED _____ HB 109

SHORT TITLE NMSU Science, Technology & Math Outreach SB _____

ANALYST Hanika Ortiz

APPROPRIATION (dollars in thousands)

Appropriation		Recurring or Non-Rec	Fund Affected
FY07	FY08		
	\$500.0	Recurring	General Fund

(Parenthesis () Indicate Expenditure Decreases)

SOURCES OF INFORMATION

LFC Files

Responses Received From

Public Education Department (PED)
 New Mexico State University (NMSU)
 Higher Education Department (HED)

SUMMARY

Synopsis of Bill

House Bill109 appropriates \$500 thousand from the general fund to NMSU to coordinate and expand a collaborative effort among the Colleges of Arts & Sciences, Education and Engineering related to science, technology, engineering and mathematics (STEM) educational outreach programs.

FISCAL IMPLICATIONS

The appropriation of \$500 thousand contained in HB 109 is a recurring expense to the general fund. Any unexpended or unencumbered balance remaining at the end of FY08 shall revert to the general fund.

This proposal was submitted to the New Mexico Higher Education Department by NMSU but was not included in the Department's funding recommendations for FY08.

SIGNIFICANT ISSUES

NMSU has created a STEM Alliance for the Preparation of Scientists, Engineers and Mathematicians, which currently coordinates the efforts of the more than 50 separate science, technology, engineering and mathematics (STEM) educational outreach programs throughout the state.

Through research, the Alliance is building a national model for increasing the number of underrepresented K-20 students entering STEM coursework and careers. It also develops collaborative programs between New Mexico institutions, businesses and governmental agencies. The objectives of these efforts are to improve academic achievement among K-20 students and to increase the number of underrepresented students entering STEM subjects and fields.

The 2005 National Assessment of Educational Progress (NAEP) states 36% of US 4th graders were proficient in math and 30% of 8th graders. In New Mexico, the scores drop significantly to averages of 19% and 14%, respectively; this ranks New Mexico as 49th in mathematics and science achievement. Standardized test results show that New Mexico's K-12 schools are not adequately preparing students, especially those disaggregated by ethnicity, for higher education and future science, math and technology-related work force needs.

PERFORMANCE IMPLICATIONS

HB 109 will assist in the PED's goal of reaching performance measures related to the percent of students proficient in mathematics and science.

ADMINISTRATIVE IMPLICATIONS

The Alliance is working with other New Mexico institutions of higher education, Congressional delegations, Department of Energy and federal and state agencies to increase the quality, quantity and diversity of future scientists, engineers, mathematicians and technologists.

CONFLICT, DUPLICATION, COMPANIONSHIP, RELATIONSHIP

Duplicates SB 24

Relates to HB 111/SB 29, to appropriate \$300 thousand to NMSU to pay for a science education enhancement and K-12 teacher outreach program.

Relates to HB129, to appropriate \$250 thousand to Northern New Mexico Community College to offer professional development for middle school teachers in teaching math, science and technology.

OTHER SUBSTANTIVE ISSUES

NMSU reports STEM outreach and Extension programs are currently reaching more than 100 thousand students around the state. The STEM Alliance is working to enhance collaboration and coordination of many of these programs, with an aim to increasing both the total number of outreach initiatives statewide and the number of underrepresented students entering these programs. The STEM Alliance is also working to align efforts in K-12 and higher education, and

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increase access to university and community college STEM programs. These efforts are expected to result in a steady increase in the number of underrepresented students capable of entering STEM majors at the community college and university levels.

ALTERNATIVES

NMSU may be required to seek additional funding from its institutional partners and other private funding sources.

WHAT WILL BE THE CONSEQUENCES OF NOT ENACTING THIS BILL

New Mexico students may be limited in their access to the fields of science, technology, engineering and mathematics by their inadequate educational preparation. This situation could interfere with the State's efforts to strengthen New Mexico's workforce and economy, and increase the State's competitiveness in attracting science and other technology industries because of the lack of technology-literate workers.

QUESTIONS

How many middle and high school math and science teachers in New Mexico are considered "qualified" by No Child Left Behind standards?

AHO/nt