1 2	State of Arkansas 84th General Assembly	A Bill		
	•	7 C DIII	HOUSE BILL 245	1
3 4	Regular Session, 2003		HOUSE BILL 243	+
5	By: Representative Bright			
6	by. Representative Bright			
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8		For An Act To Be Entitled		
9	AN ACT TO	ESTABLISH THE STATE SCIENCE,		
10		, ENGINEERING, AND MATHEMATICS		
11		COMPETITIVENESS ACT, AND FOR O		
12	PURPOSES.	,		
13				
14		Subtitle		
15	TO ESTA	ABLISH THE STATE SCIENCE,		
16	TECHNOL	OGY, ENGINEERING, AND MATHEMAT	ICS	
17	EDUCATI	ON COMPETITIVENESS ACT.		
18				
19				
20	BE IT ENACTED BY THE GEN	ERAL ASSEMBLY OF THE STATE OF A	ARKANSAS:	
21				
22	SECTION 1. Title.			
23	This act shall be known and may be cited as the state "Science,			
24	Technology, Engineering,	and Mathematics Education Comp	petitiveness Act".	
25				
26	SECTION 2. <u>Legisl</u>	ative findings.		
27	The General Assemb	<u>ly finds that:</u>		
28	(a) Educating tom	orrow's scientists, technologis	sts, engineers, and	
29		tical importance to the state's	<u>'</u>	
30		to address effective science, t		
31		tics education at all levels.		
32	engineering, and mathematics education, in concert with scientific research,			
33	entrepreneurship, and business formation is the foundation for economic			
34	growth and development;			
35		to be a logical educational co	<del>-</del>	
36	the knowledge of science	, technology, engineering, and	matnematics is	

1	cumulative. This implies that without a strong and vibrant K-12 educational		
2	system, the potential educational and economic impact of universities is		
3	severely diminished. Yet the strands of middle and high school mathematics		
4	and science education do not weave seamlessly into college and university		
5	degree programs and the cumulative benefits of science, technology,		
6	engineering, and mathematics are less than they could be;		
7	(c) The American Society of Mechanical Engineers sponsored a state		
8	action program: "Educating Tomorrow's Engineers," in Little Rock, Arkansas on		
9	May 29, 2002. The participants identified the following nineteen (19)		
10	critical issues for the science, technology, engineering, and mathematics		
11	(STEM) education community to address:		
12	(1) Financing student internships at universities;		
13	(2) Establishing high expectations for student performance;		
14	(3) Developing a relevant curriculum;		
15	(4) Connecting and integrating strategies for collaboration;		
16	(5) Establishing a statewide STEM organization;		
17	(6) Providing good mentoring;		
18	(7) Developing enthusiastic, energetic, and skilled teachers;		
19	(8) Fostering cooperation among the many stakeholders interested		
20	in improving STEM education;		
21	(9) Encouraging industry involvement, including internships and		
22	co-operative education experiences;		
23	(10) Urging parental support for high achievement in STEM;		
24	(11) Encouraging peer mentoring (i.e., kid-to-kid);		
25	(12) Overcoming stereotypes;		
26	(13) Preparing a common language throughout the STEM community;		
27	(14) Establishing vertical teaming relationships among STEM		
28	educators at all educational levels;		
29	(15) Putting technology in classrooms requiring computer		
30	training for teachers in pre-service;		
31	(16) Establishing a one-stop resource place;		
32	(17) Demonstrating and encouraging committed leadership;		
33	(18) Setting clear goals for STEM education; and		
34	(19) Adopting outcome measures and using them for		
35	accountability;		

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