데이타 뱅크 🖢

미국의 R&D 투자 현황



Who pays for U.S. R & D



Research funding sources will increase their monies in 1991, but will monitor the economy throughout the year and make adjustments down each month or quarter if necessary.



University research centers will increase their share of the total research workload, but they will see smaller growth (9.1%) than in the past two years (10.4%) average growth).



Defense Still Dominates Federal R & D

Defense research continues to have the largest share of the federal budget, but its share will drop two percentage points in 19 91, to 51.8%. Additional defense share decreases are forecast for the future as overall defense spending decreases and the research balance shifts to a more commercial-based emphasis.



Industrial research in 1991 will have smaller increases than in 1990, often several percentage points lower and sometimes not matching inflation increases, such as those in aerospace (4.1% increase) and metals industries (3.7% increase).

NSF's Budget for Chemical Programs is up 11%

\$ Millions	1992 ^a	1991ª	1990 ^b	%change 1991-92
Materials Research	\$ 136.6	\$ 122.5	\$ 117.0	11%
Project support	80.2	69.6	66.2	15
Laboratories and groups	37.8	35.8	34.6	6
Facilities, instrumentation	18.6	17.1	16.2	9
Chemistry	111.9	102.1	97.8	10
Physical	33.0	30.1	29.0	10
Organic and macromolecular	27.7	25.3	24.5	9
Inorganic, bioinorganic, and organometallic	19.6	17.3	16.2	13
Analytical and surface	15.4	13.7	12.9	12
Instrumentation	8.1	8.1	8.1	0
Special projects	8.1	7.6	7.1	7
Chemical and Thermal Systems	38.2	33.0	30.8	16
Engineering				
Interfacial, transport, and separations process	9.9	8.7	7.5	14
Fluid, particulate, and	9.8	9.2	9.0	6
hydraulic systems				
Chemical reaction processes	9.4	7.0	6.9	34
Thermal systems	9.1	8.1	7.4	12
Biochemistry	16.1	14.6	14.3	10
Cellular Biochemistry	14.9	13.1	12.3	14
TOTAL	\$317.7	\$285.3	\$272.2	11%
Note : Obligations. a Estimate. b Actual.	Source : Natio	onal Science	Foundation	

Top 10 Schools For R&D Spending

	(in millions)
Johns Hopkins Univ.	\$648
Massachusetts Institute	,
of Technology	\$287
Cornell Univ.	\$ 287
Stanford Univ.	\$ 286
Univ. of Wisconsin, Madison	\$ 286
Univ. of Michigan	\$ 281
Univ. of Minnesota	\$ 259
Texas A&M Univ.	\$ 251
Univ. of California, Los Angele	s \$228
Univ. of Washington	\$ 222

(R & D Magazine, January p. 38, 1991; C & EN, February p. 18, 1991)