

UNCLASSIFIED

RDT&E BUDGET ITEM JUSTIFICATION SHEET (R-2 Exhibit)									DATE February 2003	
BUDGET ACTIVITY 01 - Basic Research				PE NUMBER AND TITLE 0601103F University Research Initiatives					PROJECT 5094	
COST (\$ in Thousands)	FY 2002 Actual	FY 2003 Estimate	FY 2004 Estimate	FY 2005 Estimate	FY 2006 Estimate	FY 2007 Estimate	FY 2008 Estimate	FY 2009 Estimate	Cost to Complete	Total Cost
5094 University Research Initiatives	0	0	105,224	116,169	110,392	110,500	110,974	112,845	0	0
Quantity of RDT&E Articles	0	0	0	0	0	0	0	0	0	0

Note: In FY 2004, the Office of the Secretary of Defense transferred this program to the Air Force.

(U) **A. Mission Description**
 This program supports defense-related basic research in a wide range of scientific and engineering disciplines pertinent to maintaining U.S. military technology superiority; enhances and promotes the education of U.S. scientists and engineers in disciplines critical to maintaining, advancing, and enabling future U.S. defense technologies; and assists universities in establishing superior instrumentation capabilities needed to improve the quality of defense-related research and education. A fundamental component of this program is the recognition that future technologies and technology exploitations require highly coordinated and concerted multi- and interdisciplinary efforts. Competitive awards are selected from universities nationwide and provided to students pursuing these ends. These efforts are subject to long-range planning and technical review by both Air Force and tri-Service planning groups, and the Office of the Director of Defense Research and Engineering provides oversight.

(U) **FY 2002 (\$ in Thousands)**
 (U) \$0 Accomplishments/Planned Program.
 (U) \$0 No Activity; previously managed by OSD.
 (U) \$0 Total

(U) **FY 2003 (\$ in Thousands)**
 (U) \$0 Accomplishments/Planned Program.
 (U) \$0 No Activity; previously managed by OSD.
 (U) \$0 Total

(U) **FY 2004 (\$ in Thousands)**
 (U) \$0 Accomplishments/Planned Program.
 (U) \$53,954 Issue competitive awards to universities to promote inter- and multi-disciplinary, often multi-university, science and engineering projects focused on enabling Air Force-related technologies usually not achievable through typical single investigator awards. Topics for the FY 2004 multi-disciplinary research competition will be selected in strategic basic research areas related to transformational and high priority

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<p>(U) <u>A. Mission Description Continued</u></p> <p>(U) <u>FY 2004 (\$ in Thousands) Continued</u></p> <div style="margin-left: 40px;"> <p>technologies, such as nanotechnology, biomimetic sensor networks, intelligence information fusion, smart materials and structures, efficient energy and power conversion, high energy materials for propulsion and control, enhancing human performance, and improving research related to student training in instrumentation development. Multi-disciplinary programs begun in prior years under centralized Department of Defense funding will be continued.</p> <p>(U) \$35,705 Promote academic excellence in post-graduate, graduate, and undergraduate education in science and engineering disciplines necessary to enable and exploit technologies to ensure superiority of U.S. defense applications. Approximately 190 graduate fellowships will be awarded as part of the FY 2004 National Defense Science and Engineering Graduate Fellowship Program. These fellowships are awarded under a joint tri-Service and Office of the Director of Defense Research and Engineering competition. Support competitive awards for graduate and undergraduate research experiences including those established under the Awards to Stimulate and Support Undergraduate Research Education program. Promote and advance recognition of superior academic research under Federal programs such as the Presidential Early Career Award for Scientists and Engineers. Funding for awards made under prior year Department of Defense programs will be continued.</p> <p>(U) \$15,565 Stimulate, advance, and enhance U.S. defense-related research and research education at universities through competitive awards for high technology infrastructure and instrumentation. Conduct the FY 2004 competition for unique capability, high technology instrumentation assistance under the Defense University Research Instrumentation Program. A key element of these awards is the multi-functional utilization of the instrumentation for both educational as well as research applications.</p> <p>(U) \$105,224 Total</p> </div> <p>(U) <u>B. Budget Activity Justification</u></p> <p>This program is Budget Activity 1, Basic Research, because it funds scientific study and experimentation. Through this program, the Air Force invests in research directed towards increasing knowledge and understanding in those fields of science and engineering related to long-term national security needs.</p> <p>(U) <u>C. Program Change Summary (\$ in Thousands)</u></p> <table style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 50%;"></th> <th style="width: 10%; text-align: center;"><u>FY 2002</u></th> <th style="width: 10%; text-align: center;"><u>FY 2003</u></th> <th style="width: 10%; text-align: center;"><u>FY 2004</u></th> <th style="width: 20%; text-align: center;"><u>Total Cost</u></th> </tr> </thead> <tbody> <tr> <td>(U) Previous President's Budget</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>(U) Adjustments to Appropriated Value</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">a. Congressional/General Reductions</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">b. Small Business Innovative Research</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td style="padding-left: 20px;">c. Omnibus or Other Above Threshold Reprogram</td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table>				<u>FY 2002</u>	<u>FY 2003</u>	<u>FY 2004</u>	<u>Total Cost</u>	(U) Previous President's Budget					(U) Appropriated Value					(U) Adjustments to Appropriated Value					a. Congressional/General Reductions					b. Small Business Innovative Research					c. Omnibus or Other Above Threshold Reprogram				
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