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Exhibit R-2, RDT&E Budget Item Justification		Date: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/Basic Research – BA1	R-1 ITEM NOMENCLATURE: DTRA Basic Research Initiative; 0601000BR	

Cost (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
Total 0601000BR Cost	0.000	9.962	5.000	5.000	5.000	5.000	5.000	5.000
BT - Basic Research for WMD Knowledge Gaps	0.000	9.962	0.000	0.000	0.000	0.000	0.000	0.000
RU - Basic Research for WMD Knowledge Gaps	0.000	0.000	5.000	5.000	5.000	5.000	5.000	5.000

A. Mission Description and Budget Item Justification:

Program provides for the discovery and development of fundamental knowledge and understanding by research performers drawn primarily from academia and world-class research institutions in government and industry. This leverages DoD \$1 billion annual investment in basic research by ensuring a motivation within the scientific community to conduct research benefiting WMD-related defense missions and by improving Agency knowledge of other research efforts of potential benefit to DTRA non-proliferation, counterproliferation and consequence management efforts.

These efforts are closely coordinated with the Chem-Bio Technology Portfolio which executes a basic research program under the joint Chem-Bio Defense Program. Agency research interests are coordinated with those of Defense Advanced Research Projects Agency (DARPA) and Service basic research programs through the Defense Basic Research Advisory Group. DTRA will review its research interests at least annually to focus on those technology areas not clearly addressed by other basic research efforts.

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B. Program Change Summary:

(\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
Previous President's Budget	0.000	5.000	5.000	5.000
Current President's Budget	0.000	9.962	5.000	5.000
Total Adjustment	0.000	4.962	0.000	0.000
Congressional program reductions				
Congressional reductions		-0.038		
Congressional increases		5.000		
Reprogramming				
SBIR/STTR Transfer				
Other program adjustments				

Change Summary Explanation:

- This effort will change from Project BT to Project RU in FY 2008 to correspond with the overall R&D Program Element structure change.

C. Other Program Funding Summary: See Exhibit R-2a.**D. Acquisition Strategy:** Not Applicable.

E. Performance Metrics: Program cost, schedule and performance are measured using a systematic approach with approved programs and methods. The results of these measurements are presented to DTRA management on a regular basis to determine program effectiveness and to provide new direction as needed to ensure the efficient use of resources. Program specific performance metrics are outlined within each project description.

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Exhibit R-2a, RDT&E Project Justification		Date: February 2007
APPROPRIATION/BUDGET ACTIVITY RDT&E, Defense-Wide/Basic Research – BA1	PROJECT NAME AND NUMBER: 0601000BR Project BT – Basic Research for WMD Knowledge Gaps	

Cost (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
BT - Basic Research for WMD Knowledge Gaps	0.000	9.962	0.000	0.000	0.000	0.000	0.000	0.000

* Funding and activities realigned to Project RU of PE 0601000BR in FY 2008.

A. Mission Description and Budget Item Justification:

Program provides for the discovery and development of fundamental knowledge and understanding by research performers drawn primarily from academia and world-class research institutions in government and industry. This leverages the DoD \$1 billion annual investment in basic research by ensuring a motivation within the scientific community to conduct research benefiting WMD-related defense missions and by improving Agency knowledge of other research efforts of potential benefit to DTRA non-proliferation, counterproliferation and consequence management efforts.

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B. Accomplishments/Planned Program:

Cost (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009
BT - Basic Research for WMD Knowledge Gaps	0.000	9.962	0.000	0.000

* Funding and activities realigned to Project RU of PE 0601000BR in FY 2008.

Performance Metrics:

- Project performance is measured via a combination of statistics including the number of publications generated, number of students trained in sciences and engineering supporting DoD’s educational goals, number of research organizations participating, and percentage of participating universities on the *US News & World Report* “Best Colleges” list.

FY 2006 Accomplishments:

- Not Applicable.

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FY 2007 Plans:

- Initiate basic research efforts, as funding permits, in the interest areas of: Radiological and Nuclear Detection Material Science; Novel High Energy Materials and Processes for Counter WMD Applications; Particulate And Agent Dynamics In Multiphase Turbulent Reacting Flows; Understanding Network Response to Attack; Adversarial Social Network Theory; Biodosimetry Biomarkers for Mixed Radiation Exposure; Thermal Bionanosensor Material Science; and Novel Methods for WMD Explosives Detection.

FY 2008 Plans:

- Not Applicable. See Project RU of PE 0601000BR.

FY 2009 Plans:

- Not Applicable. See Project RU of PE 0601000BR.

C. Other Program Funding Summary: Not Applicable.

D. Acquisition Strategy: Procurement methods include in-scope award through DTRA University Strategic Partnership, collaborative funding through other organizations, and competitive award through Broad Agency Announcement.

E. Major Performers: Not Applicable.

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Cost (\$ in Millions)	FY 2006	FY 2007	FY 2008	FY 2009	FY 2010	FY 2011	FY 2012	FY 2013
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FY 2006 Accomplishments:

- Not Applicable. See Project BT of PE 0601000BR.

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FY 2007 Plans:

- Not Applicable. See Project BT of PE 0601000BR.

FY 2008 Plans:

- Continue plans started in FY 2007.

FY 2009 Plans:

- Continue plans started in FY 2007.

C. Other Program Funding Summary: Not Applicable.

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