

# Grant and Cooperative Agreement

CHOOSE ONE:

- COOPERATIVE AGREEMENT  
 GRANT

CHOOSE ONE:  EDUCATION  FACILITIES  RESEARCH  SDCR  TRAINING

1. GRANT/COOPERATIVE AGREEMENT NUMBER NRC-HQ-12-G-38-0042	2. SUPPLEMENT NUMBER M0004	3. EFFECTIVE DATE 03/14/2016	4. COMPLETION DATE
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5. ISSUED TO NAME/ADDRESS OF RECIPIENT (No., Street, City/County, State, Zip) UNIVERSITY OF TOLEDO, THE 3000 ARLINGTON AVE TOLEDO OH 436142595	6. ISSUED BY U.S. NRC - HQ Mailing Address: Acquisition Management Division Mail Stop: TWFN-5E03 Washington DC 20555-0001
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7. TAXPAYER IDENTIFICATION NO. (TIN)	9. PRINCIPAL INVESTIGATOR/ORGANIZATION'S PROJECT OR PROGRAM MGR. (Name & Phone) Dr. Changhu Chen
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8. COMMERCIAL & GOVERNMENT ENTITY (CAGE) NO.	Email: changhu.chen@utoledo.edu
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10. RESEARCH, PROJECT OR PROGRAM TITLE  
 Joint initiative in a new type of nuclear detector through faculty development between the departments of Radiation Oncology and Physics and Astronomy.

11. PURPOSE  
 See schedule

12. PERIOD OF PERFORMANCE (Approximately)  
 06/06/2012 through 06/07/2016

13A.	AWARD HISTORY	13B.	FUNDING HISTORY
PREVIOUS	\$345,436.00	PREVIOUS	\$345,436.00
THIS ACTION	\$0.00	THIS ACTION	\$0.00
CASH SHARE	\$0.00	<b>TOTAL</b>	\$345,436.00
NON-CASH SHARE	\$0.00		
RECIPIENT SHARE	\$48,000.00		
<b>TOTAL</b>	<b>\$345,436.00</b>		

14. ACCOUNTING AND APPROPRIATION DATA

PURCHASE REQUEST NO.	JOB ORDER NO.	AMOUNT	STATUS

15. POINTS OF CONTACT

	NAME	MAIL STOP	TELEPHONE	E-MAIL ADDRESS
TECHNICAL OFFICER	NANCY V. HEBRON-ISREAL	3WFN3A12	301-287-0718	Nancy.Hebron-Isreal@nrc.gov
NEGOTIATOR				
ADMINISTRATOR	GORDANA ZUBER		301-415-5002	gordana.zuber@nrc.gov
PAYMENTS				

16. THIS AWARD IS MADE UNDER THE AUTHORITY OF:  
 Pursuant to Section 31b and 141b of the Atomic Energy Act of 1954, as amended.

17. APPLICABLE STATEMENT(S), IF CHECKED: <input checked="" type="checkbox"/> NO CHANGE IS MADE TO EXISTING PROVISIONS <input type="checkbox"/> FDP TERMS AND CONDITIONS AND THE AGENCY-SPECIFIC REQUIREMENTS APPLY TO THIS GRANT	18. APPLICABLE ENCLOSURE(S), IF CHECKED: <input type="checkbox"/> PROVISIONS <input type="checkbox"/> SPECIAL CONDITIONS <input type="checkbox"/> REQUIRED PUBLICATIONS AND REPORTS
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UNITED STATES OF AMERICA	COOPERATIVE AGREEMENT RECIPIENT
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CONTRACTING/GRANT OFFICER M'LITA R. CARR	DATE 03/15/2016	AUTHORIZED REPRESENTATIVE	DATE
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**TEMPLATE - ADM001**

**SUNSI REVIEW COMPLETE**

**MAR 18 2016**

**ADM002**

# Grant and Cooperative Agreement

ITEM NO. (A)	ITEM OR SERVICE (Include Specifications and Special Instructions) (B)	QUANTITY (C)	UNIT (D)	ESTIMATED COST	
				UNIT PRICE (E)	AMOUNT (F)
	<p>CFDA Number: 77.008  DUNS Number: 807418939  NRC-HQ-12-G-38-0042  ZEROREQ-OCHCO-16-0092</p> <p>The purpose of this modification is to extend the period of performance.</p> <p>As a result of this modification:</p> <p>1. ATTACHMENT A - SCHEDULE,  A. Section A.2 PERIOD OF GRANT, delete in its entirety and replace with the following:</p> <p>"1. The effective date of this Grant is June 6, 2012. The completion date of this Grant is June 7, 2016.</p> <p>2. Funds obligated in this grants are available for program expenditures for the period:  June 6, 2012 - June 7, 2016"</p> <p>B. Section A.4 AMOUNT OF AWARD AND PAYMENT PROCEDURES, delete in its entirety and replace with the following:</p> <p>"1. The total estimated amount of this Award is \$393,436.00 inclusive of a cost share of \$48,000.00 for a four year period.</p> <p>All other terms and conditions remain the same.  Payment:  ASAP GRANT FUNDS REIMBURSEMENT SYS  US TREASURY  Period of Performance: 06/06/2012 to 06/07/2016</p>				