CA8160

Georgia Institute of Technology Office of Contract Administration OCA PAD AMENDMENT - PROJECT HEADER INFORMATION

11-JUN-1997 09:20

Document Header Id #: 38857 Project #: E-25-L54 Center #: 10/24-6-R0036-0A0 OCA file #:	Cost share Center shr Project typ	#:	ACT Rev #: 2
Contract #: 596-2290 Prime #:			Award type: GRANT Contract entity: GTRC
CFDA: N/A PE #: N/A			
Project unit: MECH ENGR	Un	it code: 28	
Project director(s): PDPI- MELKOTE	S N MECH ENGR	(404)89	4-8499
Sponsor : SME MFG ENGR EDU Division Id: 500	CATION FDN/DEARBORN,	MI / 6	049
Award period: 01-JUL-1996 to	30-SEP-1997 (perfor		
Sponsor amount New t		Total to date	
Contract value:	0.00		
		67,628.00	
Funded: Cost sharing amount:	0.00	0.00	
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Administrative comments -Letter dated 5-30-97 extends period of performance to September 30, 1997. CA8120

Georgia Institute of Technology Page: 1 Office of Contract Administration 06-0CT-1997 08:56 PROJECT CLOSEOUT - NOTICE

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	Closeout Notice Dat	e 06-0CT-1997
Project Number E-25-L54	Doch Id 38857	
Center Number 10/24-6-R0036-0A0		
Project Director MELKOTE, SHREYES		
Project Unit MECH ENGR		
Sponsor SME MFG ENGR EDUCATION FDN/DEARBORN	, MI	
Division Id 6049		
Contract Number 596-2290	Contract Entity G	TRC
Prime Contract Number		
Title MANUFACTURING EDUCATION & RESEARCH		
Effective Completion Date 30-SEP-1997 (Perf	ormance) 30-SEP-1997	(Reports)
Closeout Action:	Y/N	Date Submitted
Final Invoice or Copy of Final Invoice	N	
Final Report of Inventions and/or Subcontrac		
Government Property Inventory and Related Ce	rtificate N	
Classified Material Certificate	N	
Release and Assignment	N	
Other	N	
Comments		
	10	
Distribution Required:		
Project Director/Principal Investigator	Y Y	
Research Administrative Network		
Accounting	Y	
Research Security Department	N	
Reports Coordinator	Y	
Research Property Team	Y	
Supply Services Department	Y	
Georgia Tech Research Corporation	Y	
Project File	Y	

E-25-L54 #1



The George W. Woodruff School of Mechanical Engineering

September 29, 1997

Ms. Dora Murray, Grants Coordinator SME Education Foundation One SME Drive, P.O. Box 930 Dearborn, MI 48121-0930

Dear Ms. Murray,

Please find enclosed my final report for grant proposal number 595-2290. The invoices for the project expenses will be separately mailed/faxed to you by our Office of Contracts Administration. I would like to thank the SME Education Foundation for providing the financial and in-kind support. If you have any questions regarding my final report, please do not hesitate to contact me at the number given below.

Sincerely,

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Shreyes N. Melkote, Ph.D. Assistant Professor Ph: (404) 894-8499, Fax: (404) 894-9342

encl.

Atlanta, Georgia 30332-0405 U.S.A. Administration Office 404+894+3200 Finance Office 404+894+7400 Graduate Program 404+894+3204 Undergraduate Office 404+894+3203 Fax 404+894+8336 or

web site: http://www.me.gatech.edu/

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FINAL REPORT FOR SME GRANT

Grant Proposal No.: 596-2290 Funded Areas: Faculty Development, In-Kind Gifts Name of Awarded Institution: Georgia Institute of Technology Name of Project Director: Dr. Shreyes N. Melkote

SME Education Foundation Grant Report

Abstract

The 1996 SME Education Foundation Grant to the Georgia Institute of Technology consisted of a cash grant (\$850) for the project director's faculty development efforts and in-kind software gifts (worth \$66,778) to support his teaching and research activities in manufacturing. This report describes the manner in which the funds and in-kind gifts were utilized to improve and advance manufacturing education at Georgia Tech.

Faculty Development Grant

The \$850 cash grant provided for faculty development were used to cover the project director Dr. Shreyes Melkote's travel expenses to attend the Twenty Fifth North American Manufacturing Research Conference held at the University of Nebraska in Lincoln, Nebraska from May 20 - 23, 1997. This is the premier manufacturing research conference in North America and has significant international participation. The project director attended several technical sessions in the material removal and manufacturing systems areas and also served as a co-chair for a technical session on machine tool accuracy. The information obtained in this conference is being incorporated in a new graduate course on Automated Manufacturing Process Planning being taught by Dr. Melkote in Fall 1997. The total cost of this conference was \$883.67.

In-Kind Gifts

In-kind software gifts totaling \$66,778 were awarded to Georgia Tech by the SME Education Foundation to support the manufacturing research and education activities of the project director. The specific software gifts included: Algor finite element software from Algor, Inc. (\$20, 333); Autocad R13 for the Sun Sparc platform from Autodesk, Inc. (\$3,750); one Carr-Lane Tool Designer's Assistant from Carr-Lane, Inc. (\$795); and ADAMS software by Mechanical Dynamics Inc. (\$41,900). Of the four (4) software gift awards only the first three could be obtained from the vendors. The fourth software gift (ADAMS) could not be obtained from Mechanical Dynamics Inc. due to difficulties in signing the software licensing agreement as well as the inability of the project director to make the mandatory training session fee.

The software gifts acquired by the project director have been successfully installed on a Sun Sparc 5 workstation. All three softwares (Algor, Autocad, and Carr-Lane) are being used by the project director's graduate students in their research on machining fixture performance analysis and optimization.

Impact of SME Support

The SME Education Foundation research initiation grant has had an extremely positiveimpact on the project director's academic and research programs in manufacturing at Georgia Tech. The grant enabled Dr. Melkote to attend the 25th North American Manufacturing Research Conference at the University of Nebraska, Lincoln, Nebraska. Attendance at this conference allowed the project director to learn about the most recent research results and future research directions in manufacturing. The relevant information derived from this conference is being incorporated into a new graduate course on Automated Manufacturing Process Planning being taught by Dr. Melkote in Fall 1997.

The software gifts have provided the project director with a valuable resource that supports his research program in the fixturing area. The gift has also allowed the project director to leverage additional research funds for fixturing research from the NSF/DARPA Machine Tool Agile Manufacturing Research Institute at the University of Illinois at Urbana-Champaign.