

**Report Information**

Award Type	Award Number	Prime DUNS	Calendar Year / Quarter	Final Report
Grant	DE-FG02-00ER54577	066470972	2011 / 1	No

**Award Recipient Information**

<b>Recipient DUNS Number</b> 066470972	<b>Recipient Address 1</b> 107 SAMFORD HALL
<b>Recipient Account Number</b> 219051	<b>Recipient Address 2</b>
<b>Recipient Congressional District</b> 02	<b>Recipient City</b> AUBURN
<b>Parent DUNS Number</b> 066470972	<b>Recipient State</b> AL
<b>Recipient Type</b> 2U.G6.M8.OH.VW	<b>Recipient ZIP Code + 4</b> 368490001
<b>Recipient Legal Name</b> AUBURN UNIVERSITY	<b>Recipient Country</b> USA
<b>Recipient DBA Name</b>	

**Project / Award Information**

<b>Funding Agency Code</b> 8925	<b>Total Number of Sub Awards less than \$25,000/award</b> 0
<b>Awarding Agency Code</b> 8925	<b>Total Amount Sub Awards less than \$25,000/award</b> 0.00
<b>Program Source (TAS) Code</b> 89-0227	<b>Total Number of Sub Awards to Individuals</b> 0
<b>Sub Account Number for Program Source</b>	<b>Total Amount of Sub Awards to Individuals</b> 0.00
<b>CFDA Number</b> 81.049	<b>Total Number of Payments to Vendors less than \$25,000/award</b> 46
<b>Amount of Award</b> 140000.00	<b>Total Amount of Payments to Vendors less than \$25,000/award</b> 71746.70
<b>Award Date</b> 07/19/2010	
<b>Award Description</b> This supplemental award for infrastructure improvements is aimed at providing the PI's laboratory with upgrades to enhance the operational parameters of experiments and new diagnostic systems to improve the University ability to perform scientific measurements. These tools will not only expand our current experimental capabilities, but also lay the groundwork for new investigations.	

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Project Information	
<p><b>Project Name or Project/ Program Title</b> Multi-scale investigation of sheared flows in magnetized plasmas</p> <p><b>Quarterly Activities/ Project Description</b> Progress Report            a) Providing critical hardware support for the DOE-supported Auburn Linear Experiment for Instabilities Studies (ALEXIS). In particular, we have made upgrades to the vacuum system and control system of the ALEXIS device. We have used funds to improve the performance of an argon-ion dye laser system used for laser induced luorescence (LIF) measurements. This is a critical diagnostic system that is central to the doctoral research of two current Ph.D. students and likely many more in the following years.            b) Providing the funding to support the purchase of a tunable diode-based laser system for LIF studies. This new hardware represents the state-of-the-art in tunable laser diode systems. It has the potential to provide higher output power and more stability than the current dye laser system. The new system was installed in the laboratory in early Dec., 2010 and appears to meet all of our operational criteria.</p>	<p><b>Activity Codes (NAICS or NTEE-NPC) (up to 10)</b></p> <p><b>Activity Code 1</b> B43 - NTEE</p> <p><b>Activity Code 2</b></p> <p><b>Activity Code 3</b></p> <p><b>Activity Code 4</b></p> <p><b>Activity Code 5</b></p> <p><b>Activity Code 6</b></p> <p><b>Activity Code 7</b></p> <p><b>Activity Code 8</b></p> <p><b>Activity Code 9</b></p> <p><b>Activity Code 10</b></p>
<p><b>Project Status</b> Completed 50% or more</p> <p><b>Total Federal Amount ARRA Funds Received/ Invoiced</b> 137436.40</p> <p><b>Number of Jobs</b> 0.00</p> <p><b>Description of Jobs Created</b> None</p> <p><b>Total Federal Amount of ARRA Expenditure</b> 138481.68</p>	

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**Total Federal ARRA** 0.00  
**Infrastructure Expenditure**  
**Infrastructure Purpose and Rationale**

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**Infrastructure Contact**

Name	Street Address 1
Email	Street Address 2
Phone	Street Address 3
Ext	City
	State
	ZIP Code + 4

**Primary Place of Performance**

Address 1	Department of Physics
Address 2	208 Allison Hall
City	Auburn University
Country Code	US
State	AL
ZIP Code + 4	36849 - 0001
Congressional District	02

**Recipient Highly Compensated Officers**

Prime Recipient Indication of Reporting Applicability	No	Officer 3 Name	
Officer 1 Name		Officer 3 Compensation	
Officer 1 Compensation		Officer 4 Name	
Officer 2 Name		Officer 4 Compensation	
Officer 2 Compensation		Officer 5 Name	
		Officer 5 Compensation	

**Report Audit Trail**

Created By	Cindy Selman
Date Created	04/01/2011 04:54 PM
Last Updated By	Cindy Selman
Last Updated On	04/07/2011 08:28 AM

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**Vendor Information**

<b>Sub Award Number</b>		<b>Payment Amount</b>	65140.00
<b>Vendor DUNS Number</b>	126139489	<b>Product and Service Description</b>	Laser system and periperhals
<b>Vendor Name</b>	TOPTICA Photonics, Inc.		
<b>Vendor HQ ZIP Code + 4</b>	14564 - 1402		

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