

Report Information

Award Type	Award Number	Prime DUNS	Calendar Yr/Qtr	Final Report
Grant	0915045	066470972	2011 / 3	No

Award Recipient Information

Recipient DUNS Number	066470972	Recipient Address 1	107 SAMFORD HALL
Recipient Account Number	219046	Recipient Address 2	
Recipient Congressional District	02	Recipient City	AUBURN
Parent DUNS Number	066470972	Recipient State	AL
Recipient Type	2U.G6.M8.OH.VW	Recipient ZIP Code + 4	368490001
Recipient Legal Name	AUBURN UNIVERSITY	Recipient Country	USA
Recipient DBA Name			

Project / Award Information

Funding Agency Code	4900	Total Number of Sub Awards less than \$25,000/award	0
Awarding Agency Code	4900	Total Amount Sub Awards less than \$25,000/award	0.00
Program Source (TAS) Code	49-0101	Total Number of Sub Awards to Individuals	0
Sub Account Number for Program Source		Total Amount of Sub Awards to Individuals	0.00
CFDA Number	47.082	Total Number of Payments to Vendors less than \$25,000/award	11
Amount of Award	175777.00	Total Amount of Payments to Vendors less than \$25,000/award	21459.24
Award Date	09/14/2009		
Award Description	<p>The investigator and his students will study poromechanical models analytically (existence and uniqueness), develop and rigorously analyze finite element based methods for approximating solutions of various model problems in poromechanics, and derive a-priori and a-posteriori error estimates. They will advance the underlying mathematical theory and the science of computer simulation of large-scale, complex, coupled, multi-scale phenomena. Deliverables may include scientific reports, journal publications, conference presentations, and computer programs.</p>		

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Project Information

Project Name or Project/ Program Title	Studies in Poromechanics and Electro-Poromechanics	Activity Codes (NAICS or NTEE-NPC) (up to 10)
Quarterly Activities/ Project Description	<p>Working with Y. Cao on the analysis and numerical analysis of a stationary poroelasticity model (we are studying the existence and uniqueness of solutions, and their numerical approximation). Writing a research paper with Y. Cao: "Steady Flow in a Compressible Porous Medium".</p> <p>Writing a research paper with L. W. Wolf, M.-K. Lee and G. Dyer "PFLOW: A 3-Dimensional Time-Dependent Pore-Pressure Diffusion Model".</p> <p>The first version of the Matlab program PFlow has been released, L. W. Wolf (Geology and Geography) has been handling its distribution to researchers and educators.</p>	<p>Activity Code 1 B43 - NTEE</p> <p>Activity Code 2</p> <p>Activity Code 3</p> <p>Activity Code 4</p> <p>Activity Code 5</p> <p>Activity Code 6</p> <p>Activity Code 7</p> <p>Activity Code 8</p> <p>Activity Code 9</p> <p>Activity Code 10</p>
Project Status	Completed 50% or more	
Total Federal Amount ARRA Funds Received/ Invoiced	113449.20	
Number of Jobs	0.39	
Description of Jobs Created	Graduate Assistants	
Total Federal Amount of ARRA Expenditure	113449.20	
Total Federal ARRA Infrastructure Expenditure	0.00	
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 Mathematics
and Statistics
Address 2 221 Parker 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

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