**Project / Award Information**

- **Funding Agency Code**: 4900
- **Awarding Agency Code**: 4900
- **Program Source (TAS) Code**: 49-0101
- **Sub Account Number for Program Source**: 4623008.00
- **CFDA Number**: 47.082
- **Amount of Award**: 4623008.00
- **Award Date**: 08/20/2010
- **Award Description**: Through its biological engineering research programs (BERL), Auburn University is well positioned to address the global challenges of providing renewable sources of energy, clean and abundant sources of water, healthy environment, and safe and plentiful supplies of food and other value-added products necessary for life. This project responds to the program goal of enhancing the Nation's existing research facilities to enable a next-generation research infrastructure by creating state-of-the-art laboratories. This project will ultimately allow research and research training on bioenergy and bioproducts engineering, ecological engineering, food safety engineering, and automation and sensor technologies to improve management of our national resources.

- **Total Number of Sub Awards less than $25,000/award**: 0
- **Total Amount Sub Awards less than $25,000/award**: 0.00
- **Total Number of Sub Awards to Individuals**: 0
- **Total Amount of Sub Awards to Individuals**: 0.00
- **Total Number of Payments to Vendors less than $25,000/award**: 46
- **Total Amount of Payments to Vendors less than $25,000/award**: 174746.87

<table>
<thead>
<tr>
<th>Project Name or Project/ Program Title</th>
<th>Quarterly Activities/ Project Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Next Generation Biological Engineering Research Through Renovation of Laboratories at Auburn University</td>
<td>We are rapidly progressing on the renovation of the building. Demolition is complete. On the exterior of the building, the roof is nearing dry-in and the windows are in fabrication. Installation should begin mid-December. Masonry work is 50% complete. On the interior, the crane supports are being installed. Plumbing, HVAC, electrical and mechanical work are ongoing moving from the first floor up to the second floor. Contractor is beginning to track casework fabrication. Critical path items for the next quarter include: Complete dry-in - completion of roof and installation of windows and interior framing and installation of sheet rock for interior walls.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Project Status</th>
<th>Activity Codes (NAICS or NTEE-NPC) (up to 10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 50% completed</td>
<td>Activity Code 1 236220</td>
</tr>
<tr>
<td>Activity Code 2 611310</td>
<td></td>
</tr>
<tr>
<td>Activity Code 3 541712</td>
<td></td>
</tr>
<tr>
<td>Activity Code 4 Z99</td>
<td></td>
</tr>
<tr>
<td>Activity Code 5</td>
<td></td>
</tr>
<tr>
<td>Activity Code 6</td>
<td></td>
</tr>
<tr>
<td>Activity Code 7</td>
<td></td>
</tr>
<tr>
<td>Activity Code 8</td>
<td></td>
</tr>
<tr>
<td>Activity Code 9</td>
<td></td>
</tr>
<tr>
<td>Activity Code 10</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Federal Amount ARRA</th>
<th>994499.64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Funds Received/ Invoiced</td>
<td>994499.64</td>
</tr>
<tr>
<td>Number of Jobs</td>
<td>10.67</td>
</tr>
<tr>
<td>Description of Jobs Created</td>
<td>Architect and design team, project manager, engineers, and construction tradesmen.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Federal Amount of ARRA Expenditure</th>
<th>994499.64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Federal ARRA Infrastructure Expenditure</td>
<td>994499.64</td>
</tr>
</tbody>
</table>

| Infrastructure Purpose and Rationale | This project involves the renovation of research laboratories in a building known as the Corley Annex. This is used by faculty in Biosystems Engineering and collaborating units. This gut renovation will upgrade the research space to contemporary levels of laboratory mechanical, electrical, and plumbing infrastructure and will result in a series of research laboratories and support spaces for the |

January 8, 2013
biological engineering program. The latter include laboratories for: a) Biomaterials Processing and Conversion; b) Advanced Biological Systems; c) Biosystems Automation; d) Biomaterials Characterization; e) Food Safety Engineering; f) Bioanalysis; g) Chemical Analysis; and h) Fabrication, an enhanced Instrument Support Facility, and new controlled-environment rooms.

The renovated facility will be used for research in 1) bioenergy and bioproducts engineering; 2) ecological engineering; 3) food safety engineering; and 4) biosystems automation for natural resource management. It will enhance the existing collaboration between the Biosystems Engineering and Chemical Engineering departments. Specific examples of planned research activities include developing new techniques for processing and pre-treating biomass for the production of liquid fuels or electrical power; finding new techniques for converting biomass to intermediate products suitable for more efficient transport and further bio-refining; determining the fate and transport of emerging contaminants in the environment; quantifying the impacts of climate variability and change on water resources; developing innovative food processing and packaging techniques to extend shelf life of food products; refining food traceability systems to insure food safety; developing sensors and controls to reduce the use of fertilizers and pesticides; and developing data collection systems to accurately measure biomass removals and to guide the subsequent application of
nutrients to insure long-term sustainability of agricultural and forest lands.

The project will improve the Nation’s research infrastructure by adding new capability to solve problems in biological systems with emphasis on critical societal needs for producing renewable energy, maintaining supplies of clean and abundant water, and improving natural resource management. The renovated facility will support an expansion of the existing collaboration in food engineering with Tuskegee University. The research training capacity and capabilities of the renovated facility will support newly approved graduate degrees in Biosystems Engineering.
# Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
<th>Final Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
<td>No</td>
</tr>
</tbody>
</table>

## Infrastructure Contact

<table>
<thead>
<tr>
<th>Name</th>
<th>Street Address 1</th>
<th>Street Address 2</th>
<th>Street Address 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gene Taylor</td>
<td>301 Samford Hall</td>
<td>College Street</td>
<td></td>
</tr>
<tr>
<td><a href="mailto:taylol2@auburn.edu">taylol2@auburn.edu</a></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>(334) 844-5956</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ext</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>City</th>
<th>State</th>
<th>ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Auburn University</td>
<td>AL</td>
<td>36849 - 0001</td>
</tr>
</tbody>
</table>

## Primary Place of Performance

<table>
<thead>
<tr>
<th>Address 1</th>
<th>Address 2</th>
<th>City</th>
<th>County Code</th>
<th>State</th>
<th>ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>209 Tom Corley Building</td>
<td>Biosystems Engineering Department</td>
<td>Auburn University</td>
<td>US</td>
<td>AL</td>
<td>36849 - 0001</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Congressional District</th>
</tr>
</thead>
<tbody>
<tr>
<td>02</td>
</tr>
</tbody>
</table>

## Recipient Highly Compensated Officers

<table>
<thead>
<tr>
<th>Prime Recipient Indication of Reporting Applicability</th>
<th>Officer 1 Name</th>
<th>Officer 1 Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td>No</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Officer 2 Name</th>
<th>Officer 2 Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Officer 3 Name</th>
<th>Officer 3 Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Officer 4 Name</th>
<th>Officer 4 Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Officer 5 Name</th>
<th>Officer 5 Compensation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

## Report Audit Trail

<table>
<thead>
<tr>
<th>Created By</th>
<th>Date Created</th>
<th>Last Updated By</th>
<th>Last Updated On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Elizabeth Morgan</td>
<td>01/08/2013 03:34 PM</td>
<td>Elizabeth Morgan</td>
<td>01/08/2013 03:34 PM</td>
</tr>
<tr>
<td>Report Information</td>
<td>Vendor Information</td>
<td>Report Audit Trail</td>
<td></td>
</tr>
<tr>
<td>--------------------</td>
<td>--------------------</td>
<td>--------------------</td>
<td></td>
</tr>
<tr>
<td><strong>Award Type</strong></td>
<td><strong>Sub Award Number</strong></td>
<td><strong>Created By</strong> Elizabeth Morgan</td>
<td></td>
</tr>
<tr>
<td>Grant</td>
<td>144442365</td>
<td><strong>Date Created</strong> 01/08/2013 03:34 PM</td>
<td></td>
</tr>
<tr>
<td><strong>Award Number</strong></td>
<td><strong>Vendor DUNS Number</strong> 14442365</td>
<td><strong>Last Updated By</strong> Elizabeth Morgan</td>
<td></td>
</tr>
<tr>
<td>0963407</td>
<td></td>
<td><strong>Last Updated On</strong> 01/08/2013 03:34 PM</td>
<td></td>
</tr>
<tr>
<td><strong>Prime DUNS</strong></td>
<td><strong>Vendor Name</strong> Lord, Aeck and Sargent, Inc</td>
<td><strong>Payment Amount</strong> $ 28,478.01</td>
<td></td>
</tr>
<tr>
<td>066470972</td>
<td></td>
<td><strong>Product and Service Description</strong> Architectural Services</td>
<td></td>
</tr>
<tr>
<td><strong>Calendar Yr/Qtr</strong></td>
<td><strong>Vendor HQ ZIP Code + 4</strong> 30361 - 3501</td>
<td><strong>_</strong></td>
<td></td>
</tr>
<tr>
<td>2012 / 4</td>
<td></td>
<td><strong>_</strong></td>
<td></td>
</tr>
</tbody>
</table>

January 8, 2013

Page 6 of 16
<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

**Vendor Information**

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>Vendor DUNS Number</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$33,902.13</td>
<td>144442365</td>
<td>Architectural services</td>
</tr>
</tbody>
</table>

**Vendor Name**

Lord, Aeck and Sargent, Inc

**Vendor HQ ZIP Code + 4**


**Report Audit Trail**

- **Created By**: Elizabeth Morgan
- **Date Created**: 01/08/2013 03:34 PM
- **Last Updated By**: Elizabeth Morgan
- **Last Updated On**: 01/08/2013 03:34 PM
### Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

### Vendor Information

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>144442365</td>
<td>$36,459.88</td>
<td>Architectural Services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor DUNS Number</th>
<th>Vendor Name</th>
<th>Vendor HQ ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>144442365</td>
<td>Lord, Aeck and Sargent, Inc</td>
<td>30361 - 3501</td>
</tr>
</tbody>
</table>

### Report Audit Trail

- **Created By**: Elizabeth Morgan
- **Date Created**: 01/08/2013 03:34 PM
- **Last Updated By**: Elizabeth Morgan
- **Last Updated On**: 01/08/2013 03:34 PM
<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub Award Number</td>
</tr>
<tr>
<td>Vendor DUNS Number</td>
</tr>
<tr>
<td>Vendor Name</td>
</tr>
<tr>
<td>Vendor HQ ZIP Code + 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Report Audit Trail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Created By</td>
</tr>
<tr>
<td>Date Created</td>
</tr>
<tr>
<td>Last Updated By</td>
</tr>
<tr>
<td>Last Updated On</td>
</tr>
<tr>
<td>Report Information</td>
</tr>
<tr>
<td>-------------------------------------------</td>
</tr>
<tr>
<td>Award Type: Grant</td>
</tr>
<tr>
<td>Award Number: 0963407</td>
</tr>
<tr>
<td>Prime DUNS: 066470972</td>
</tr>
<tr>
<td>Calendar Yr/Qtr: 2012 / 4</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td></td>
</tr>
</tbody>
</table>
### Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

### Vendor Information

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>144442365</td>
<td>$ 26,625.05</td>
<td>Architectural services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor DUNS Number</th>
<th>Vendor Name</th>
<th>Vendor HQ ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>144442365</td>
<td>Lord, Aeck and Sargent, Inc.</td>
<td></td>
</tr>
</tbody>
</table>

### Report Audit Trail

- **Created By**: Elizabeth Morgan
- **Date Created**: 01/08/2013 03:34 PM
- **Last Updated By**: Elizabeth Morgan
- **Last Updated On**: 01/08/2013 03:34 PM
### Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

### Vendor Information

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>043171623</td>
<td>$156,450.84</td>
<td>Construction Services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor DUNS Number</th>
<th>Vendor Name</th>
<th>Vendor HQ ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>043171623</td>
<td>Rabren General Contractors, Inc</td>
<td>36830 - 8128</td>
</tr>
</tbody>
</table>

### Report Audit Trail

- **Created By**: Elizabeth Morgan
- **Date Created**: 01/08/2013 03:34 PM
- **Last Updated By**: Elizabeth Morgan
- **Last Updated On**: 01/08/2013 03:34 PM
<table>
<thead>
<tr>
<th>Report Information</th>
<th>Vendor Information</th>
<th>Report Audit Trail</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Award Type</strong></td>
<td><strong>Sub Award Number</strong></td>
<td><strong>Created By</strong> Elizabeth Morgan</td>
</tr>
<tr>
<td><strong>Award Number</strong></td>
<td>043171623</td>
<td><strong>Date Created</strong> 01/08/2013 03:34 PM</td>
</tr>
<tr>
<td>Grant</td>
<td></td>
<td><strong>Last Updated By</strong> Elizabeth Morgan</td>
</tr>
<tr>
<td></td>
<td>0963407</td>
<td><strong>Last Updated On</strong> 01/08/2013 03:34 PM</td>
</tr>
<tr>
<td><strong>Prime DUNS</strong></td>
<td><strong>Vendor DUNS Number</strong> 043171623</td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Vendor Name</strong> Rabren General Contractors, Inc</td>
<td></td>
</tr>
<tr>
<td>066470972</td>
<td><strong>Vendor HQ ZIP Code + 4</strong> 36830 - 8128</td>
<td></td>
</tr>
<tr>
<td><strong>Calendar Yr/Qtr</strong></td>
<td><strong>Payment Amount</strong> $182,286.59</td>
<td></td>
</tr>
<tr>
<td>Grant</td>
<td><strong>Product and Service Description</strong> Construction Services</td>
<td></td>
</tr>
<tr>
<td>Report Information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>---------------------</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Award Type</td>
<td>Award Number</td>
<td>Prime DUNS</td>
</tr>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sub Award Number</td>
</tr>
<tr>
<td>Vendor DUNS Number</td>
</tr>
<tr>
<td>Vendor Name</td>
</tr>
<tr>
<td>Vendor HQ ZIP Code + 4</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Payment Amount</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$ 191,202.78</td>
<td>Construction Services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Report Audit Trail</th>
</tr>
</thead>
<tbody>
<tr>
<td>Created By</td>
</tr>
<tr>
<td>Date Created</td>
</tr>
<tr>
<td>Last Updated By</td>
</tr>
<tr>
<td>Last Updated On</td>
</tr>
</tbody>
</table>
### Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

### Vendor Information

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>$ 30,689.28</th>
</tr>
</thead>
<tbody>
<tr>
<td>Vendor DUNS Number</td>
<td>Product and Service</td>
<td>Construction Services</td>
</tr>
<tr>
<td>Vendor Name</td>
<td>Description</td>
<td></td>
</tr>
<tr>
<td>Ram Tool and Supply Company</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Vendor HQ ZIP Code + 4</td>
<td></td>
<td>35222 - 0001</td>
</tr>
</tbody>
</table>

### Report Audit Trail

- **Created By**: Elizabeth Morgan  
  **Date Created**: 01/08/2013 03:34 PM  
- **Last Updated By**: Elizabeth Morgan  
  **Last Updated On**: 01/08/2013 03:34 PM
### Report Information

<table>
<thead>
<tr>
<th>Award Type</th>
<th>Award Number</th>
<th>Prime DUNS</th>
<th>Calendar Yr/Qtr</th>
</tr>
</thead>
<tbody>
<tr>
<td>Grant</td>
<td>0963407</td>
<td>066470972</td>
<td>2012 / 4</td>
</tr>
</tbody>
</table>

### Vendor Information

<table>
<thead>
<tr>
<th>Sub Award Number</th>
<th>Payment Amount</th>
<th>Product and Service Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>069220358</td>
<td>$ 28,478.60</td>
<td>Construction Services</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Vendor DUNS Number</th>
<th>Vendor Name</th>
<th>Vendor HQ ZIP Code + 4</th>
</tr>
</thead>
<tbody>
<tr>
<td>069220358</td>
<td>Thompson Supply Company, Inc</td>
<td>36801 - 0001</td>
</tr>
</tbody>
</table>

### Report Audit Trail

- **Created By**: Elizabeth Morgan  
  **Date Created**: 01/08/2013 03:34 PM
- **Last Updated By**: Elizabeth Morgan  
  **Last Updated On**: 01/08/2013 03:34 PM