



# NC STATE UNIVERSITY

## Wolf Works

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### Spotlight: Centennial Campus Student Housing

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**NCSU HUB Web Page:**  
<http://incsu.edu/facilities/hubl>



#### Centennial Campus Student Housing Project

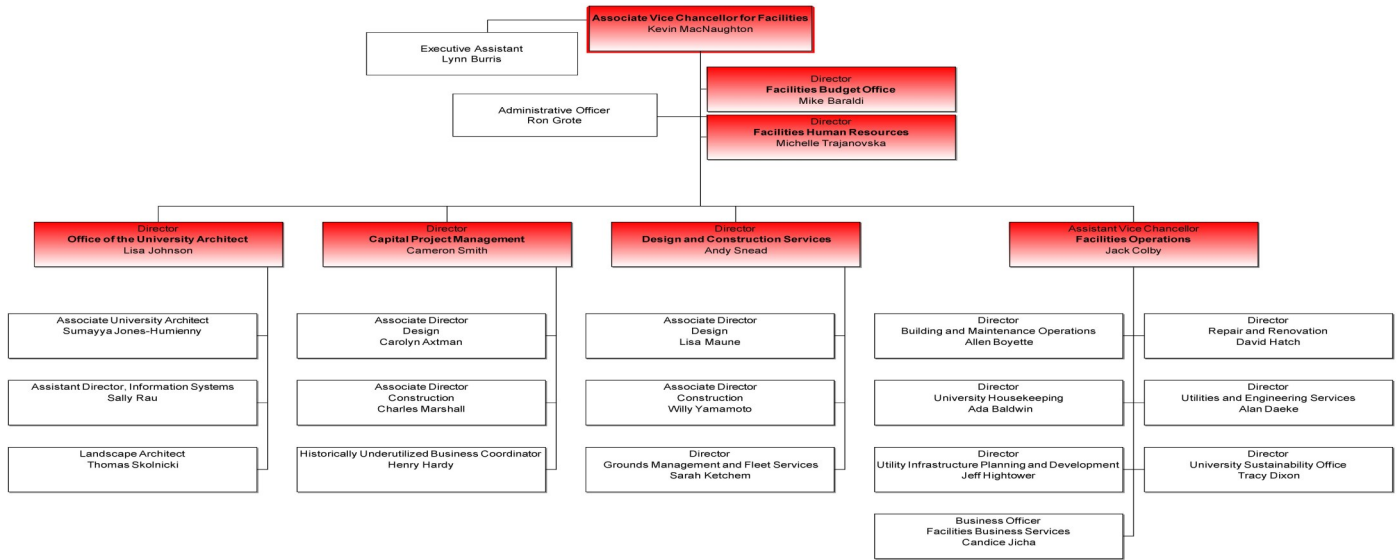
Size: Approximately 550,446 sf—Cost: 115 Million

The Historically Underutilized Business (HUB) Mentor-Protégé Program being utilized on NCSU Centennial Campus Student Housing Project is continuing to do well. Callis Contractors Incorporated (CCI) has been practicing the following techniques: document management, request for information system, cost issues, scheduling, inspection and commissioning. During document management: Creating closeout logs for items such as attic stock and training. Updating as attic stock is turned over to them and then to the owner. Tracking closeout documentation by subcontractor for as-built drawings, operation and maintenance manual, keys, and any other requirement listed on the specifications. Request for information system: maintain up-to-date information resulting from request for information (RFI) responses by posting any revisions to the contract documents. CCI created the RFIs for response from design team and then sent back to the subcontractor when response is received. During cost issues: CCI sent request for quote (RFQ) to applicable subcontractors from the cost event created from change by owner or design team. Understanding how to analyze RFI responses for costs impacts and who is responsible for the costs. Reviewing costs once received from subcontractor and creating completed cost event for owner's approval.

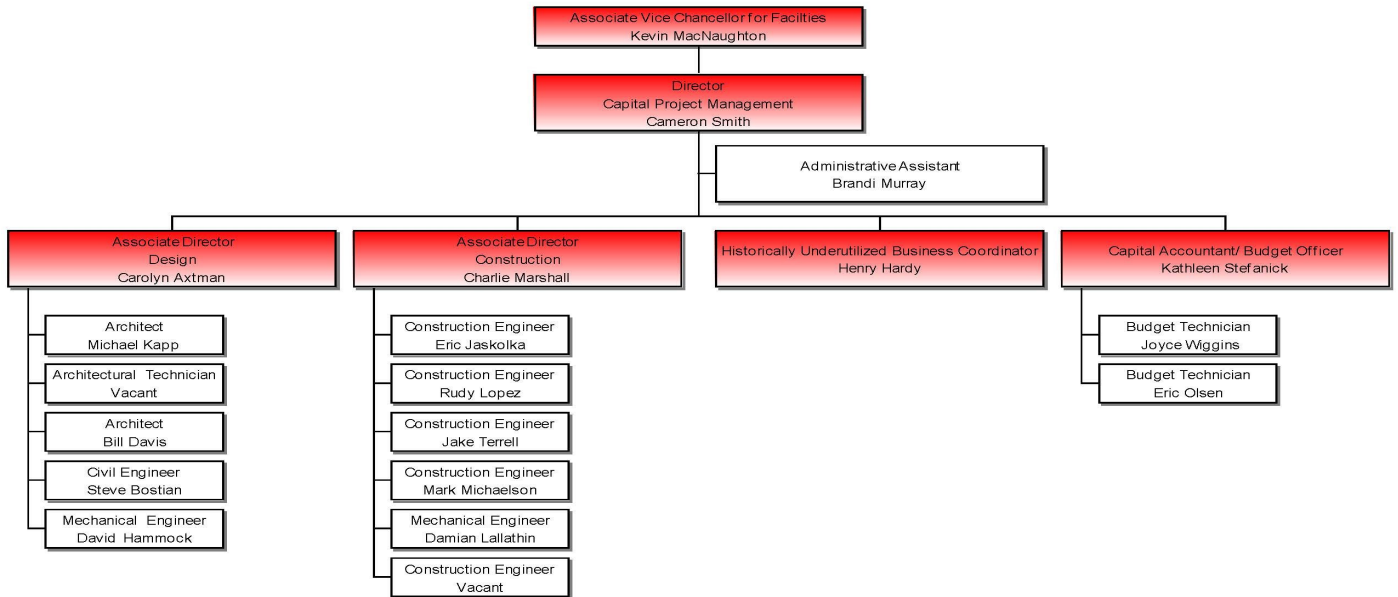
Scheduling: Creating schedule for owner training by verifying date and time with subcontractor for each of their required trainings. Sending meeting invites to applicable NCSU personnel to attend the training. Inspections: Reviewing design team's field reports for any Vela items that may be beyond their scope or require additional costs. Commissioning: Attending start-ups of equipment on site with commissioning agent and following progress of subcontractors completing the pre-functional checklists and other documentation required in the commissioning process. CCI has learned more about the commissioning process by attending the start-ups of equipment. Eaton, the commissioning agent, has their own web program for the pre-functional checklists required from each subcontractor before they show up on site for start-up. The subcontractors send back to CCI weekly on their progress. CCI has also learned a lot more about the equipment itself. There is a much greater understanding of the equipment that is operating in front of you than when it was just drawings and data on paper. Before attending these start-ups, CCI could not have told you much about the building systems. Now, they know where all the equipment is located, what it does, how it does it, why it is necessary to building operations. In closing, Rachel Allen has passed the LEED Green Associates Exam - Next step for Rachel is to prepare for LEED AP BD+C Exam.



UNC HUB Participation on projects awarded between 7/1/2009 and 1/2013 (Jan 2013 Report)															
Four-year Rolling Summary (Current FY and 3 previous years)															
Institution	Contract Amount	African American Total	Hispanic Total	Asian Total	American Indian Total	Female (Non-minority) Total	Economically Disadvantaged Total	HUB Total	African American Total Percentage	Hispanic Total Percentage	Asian Total Percentage	American Indian Total Percentage	Female (Non-minority) Total Percentage	Socially and Economically Disadvantaged Total Percentage	Total HUB Percentage
ASU	\$80,219,849	\$15,446,709	\$2,135,294	\$0	\$1,198,581	\$7,691,226	\$0	\$26,471,810	19.3%	2.7%	0.0%	1.5%	9.6%	0.0%	33.0%
ECU	\$156,820,578	\$3,060,050	\$7,483,776	\$2,516,901	\$35,075	\$35,600,740	\$765,311	\$49,480,453	2.0%	4.8%	1.6%	0.0%	22.7%	0.5%	31.5%
ECSU	\$31,326,088	\$11,428,940	\$435,567	\$0	\$0	\$5,530,857	\$45,200	\$17,440,664	36.5%	1.4%	0.0%	0.0%	17.7%	0.1%	55.7%
FSU	\$18,753,938	\$945,428	\$44,705	\$7,405	\$13,851,891	\$1,745,196	\$27,000	\$16,621,625	5.0%	0.2%	0.0%	73.9%	9.3%	0.1%	88.6%
NCA&T	\$56,215,105	\$3,056,563	\$1,034,184	\$450,472	\$266,368	\$1,475,008	\$0	\$6,282,595	5.4%	1.8%	0.8%	0.5%	2.6%	0.0%	11.2%
NCGU	\$78,441,302	\$21,617,338	\$1,708,922	\$185,560	\$76,888	\$25,714,789	\$0	\$49,303,497	27.6%	2.2%	0.2%	0.1%	32.8%	0.0%	62.9%
NCSM	\$1,184,476	\$84,987	\$130,225	\$0	\$0	\$300,152	\$0	\$915,364	7.2%	11.0%	0.0%	0.0%	25.3%	0.0%	43.5%
NCSU	\$452,527,758	\$8,182,992	\$21,170,525	\$293,761	\$1,301,262	\$137,434,777	\$250,541	\$168,633,857	1.8%	4.7%	0.1%	0.3%	30.4%	0.1%	37.3%
UNC-A	\$30,536,578	\$389,400	\$133,163	\$0	\$278,550	\$1,245,308	\$0	\$2,046,421	1.3%	0.4%	0.0%	0.9%	4.1%	0.0%	6.7%
UNC-CH	\$144,335,915	\$3,632,848	\$1,744,937	\$275,150	\$1,500,709	\$12,502,259	\$351,562	\$20,007,465	2.5%	1.2%	0.2%	1.0%	8.7%	0.2%	13.9%
UNC-C	\$284,004,964	\$23,246,557	\$9,302,315	\$3,822,950	\$920,217	\$97,052,526	\$24,031	\$104,468,596	8.2%	3.3%	1.4%	0.3%	23.8%	0.0%	36.8%
UNC-G	\$134,579,319	\$9,177,483	\$5,168,523	\$250,125	\$91,838	\$29,072,536	\$181,295	\$43,941,800	6.8%	3.8%	0.2%	0.1%	21.6%	0.1%	32.7%
UNC-P	\$196,175	\$0	\$0	\$0	\$125,630	\$0	\$0	\$125,630	0.0%	0.0%	0.0%	64.0%	0.0%	0.0%	64.0%
UNC-SA	\$1,914,223	\$21,594	\$21,600	\$0	\$0	\$703,303	\$0	\$746,497	1.1%	1.1%	0.0%	0.0%	36.7%	0.0%	39.0%
UNC-W	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
WCU	\$29,510,040	\$26,279	\$119,400	\$0	\$1,289,444	\$2,169,953	\$0	\$3,605,076	0.1%	0.4%	0.0%	4.4%	7.4%	0.0%	12.2%
WSSU	\$34,380,106	\$1,589,885	\$1,865,332	\$532,528	\$0	\$10,659,899	\$0	\$14,647,644	4.6%	5.4%	1.5%	0.0%	31.0%	0.0%	42.6%
Affiliates															
UNC-TV	\$1,061,527	\$58,386	\$0	\$0	\$0	\$344,170	\$0	\$402,556	5.5%	0.0%	0.0%	0.0%	32.4%	0.0%	37.9%
NC Arboretum	\$9,250	\$0	\$0	\$0	\$0	\$9,250	\$0	\$9,250	0.0%	0.0%	0.0%	0.0%	100.0%	0.0%	100.0%
<b>Grand Total</b>	<b>\$1,536,117,188</b>	<b>\$101,965,438</b>	<b>\$52,508,468</b>	<b>\$8,434,852</b>	<b>\$20,937,053</b>	<b>\$339,260,049</b>	<b>\$1,644,970</b>	<b>\$524,750,829</b>	<b>6.6%</b>	<b>3.4%</b>	<b>0.5%</b>	<b>1.4%</b>	<b>22.1%</b>	<b>0.1%</b>	<b>34.2%</b>



**NC State University Facilities Division  
Capital Project Management  
August 2013**



## LOOK AHEAD PROJECTS

### **Schaub, Biltmore/Robertson, Scott, Pulp and Paper, and Jordan-Energy Performance Contract**

**4:** This project is to be executed as part of Self-Perform Energy Performance Contract per NC G.S. 143-64.17. The project shall include, but not be limited to, design for connection of selected buildings to the campus district energy chilled water and steam loops and Energy Conservation Measures (ECM's) related to lighting, controls, water conservation/plumbing, building envelope, steam, mechanical/HVAC/fume hoods, and electrical. This effort will include a review of the current design, utility requirements, and process requirements; development of cost options and life cycle analysis along with energy modeling and development of an IGA. This project will evaluate energy usage of and identify ECM's for nine campus buildings. Energy modeling and an ASHRAE Level II Energy Audit will be included. The total project cost is approximately \$10,000,000.

**CVM 3rd Floor Lab Module C Renovation:** About 8000square feet of lab space will be renovated on the 3rd floor of the College of Veterinary Medicine's Main Building producing Open Lab, Bioinformatics, Lab Support, Break Room & Conference Room spaces. The design of this project is approaching completion and is scheduled to advertise for bids mid November 2013. The estimated project construction cost is about \$1,500,000.

### **Reynolds Coliseum-Renovation & Walk of Fame**

The primary goal for the renovation project is to modernize Reynolds Coliseum with specific changes meant to enhance the way the building is being used today, while respecting the character and heritage of this important "hallowed space" on NC State's campus. Introducing an energy-efficient air conditioning system will allow the building to be used in new ways. Life safety enhancements will include new sprinkler, fire alarm, and smoke evacuation systems. Reducing the size of the seating bowl will result in an intimate seating venue appropriately scaled for the sports that call Reynolds their home, and all seats will now have good sightlines. Improvements to the home of Women's Basketball, Volleyball, Gymnastics and Wrestling will enhance recruiting opportunities for these programs. And finally, woven throughout the facility will be the Walk of Fame & History experience, with a focal point in the newly created Grand Hall showcasing the storied history of NC State Athletics. The total project cost is approximately \$35,000,000.

**Watauga HVAC and Chiller Replacement:** This project will replace the chiller serving Watauga Hall with a new 90 ton air-cooled scroll chiller within the existing screened equipment area where the existing chiller is located. The project will also replace aging fan coil units, chilled water piping, insulation and controls. The total project cost is approximately \$1,800,000.

**Centennial Campus Substation Expansion:** This project is located at 1765 Varsity Drive on the Centennial Campus near the Keystone Science Center and the Wildlife Resources Building. The project will develop a design for increasing the capacity and reliability of the University's 22.9/13.2 kV medium-voltage power distribution system on Centennial Campus. New feeder and substation additions will be required to allow for future load growth outlined in the Universities master planning efforts. The project will be constructed in phases installing the required electrical infrastructure as the campus grows. The total project cost is approximately 6,500,000.

Remember design and construction opportunities can be viewed on North Carolina State University website at the following location <http://www.ncsu.edu/facilities/advertisements/index.htm>



## Spotlight: Local HUB Design Firm



**A+S Design Inc.**

Alison Steele, Associate IIDA

610 W. Main Street Unit 216

Durham, North Carolina 27701

Phone: 919-225-6692

[www.as-designinc.com](http://www.as-designinc.com)

Email: [alison@as-designinc.com](mailto:alison@as-designinc.com)

### PROFILE:

A+S Design is committed to developing interior design solutions that offers a unique and compelling experience for individuals to live, work, gather and learn. Our mission is to provide a superior level of creative design ideas, service and the monitoring of the execution of those ideas. Our team has been involved in many successful projects within North Carolina, Texas, New York City as well as Beijing, allowing A+S D to claim international status. This work has included space planning, material selection, FF&E packages, and project management. This, combined with years of corporate, entertainment and commercial design experience, makes us well qualified to successfully execute and provide solutions.

### PRESENCE WITHIN THE UNC SCHOOL SYSTEM/HIGHER EDUCATION/GREATER NORTH CAROLINA:

The roster of projects A+S Design has participated in the greater North Carolina area included Elizabeth City State University Pharmacy School in Elizabeth City as a consultant to The Freelon Group; North Carolina Agricultural & Technical State University General Classroom Facility in Greensboro as a consultant to The Freelon Group; North Carolina Central University Turner Law Building in Durham by Obrien Atkins; Dean Sheppard's Office Suite at The Fuqua School of Business at Duke University as a consultant to Szostak Design; Advisory Board member for the Interior Architecture Program at The University of North Carolina-Greensboro

### PRESENCE

A+S Design is a North Carolina based HUB (Historically Underutilized Business) certified, woman-owned interior design firm, a member of WAC (Women in Architecture), TWILL (Triangle Women's Initiative for Leadership & Learning), Rotary Club Member and Volunteer, North Carolina Preservation member, a member of NAPW (National Association of Professional Women), member of DDI (downtown Durham Inc.) and Preservation Durham.

**North Carolina State University**  
[www.ncsu.edu/facilities/advertisements/](http://www.ncsu.edu/facilities/advertisements/)  
**The University of North Carolina System**  
[www.northcarolina.edu/info/vendors/opportunities.htm](http://www.northcarolina.edu/info/vendors/opportunities.htm)



If you are interested in strengthening your business, listed below is information about companies interested in helping minority, women and small businesses to grow their business.

Henry J. Hardy  
Capital Projects Program Mgr.  
Capital Project Management  
Campus Box 7520/Administrative  
Services III  
2701 Sullivan Drive, Suite 331  
Raleigh, NC 27695-7520

Phone: [919-513-0223](tel:919-513-0223)  
Fax: [919-515-4253](tel:919-515-4253)  
Email: [hjhardy@ncsu.edu](mailto:hjhardy@ncsu.edu)

**Self-Help**  
301 West Main Street  
Durham, NC 27701  
(919) 956-4400  
[www.self-help.org](http://www.self-help.org)

**Raleigh Business & Technology Center**  
900 South Wilmington Street  
Raleigh, NC 27601  
(919) 836-8618  
[www.raleighbtc.com/](http://www.raleighbtc.com/)

**The North Carolina Institute of  
Minority Economic Development**  
114 W. Parrish St.  
Durham, NC 27701  
(919) 956-8889  
[www.ncimed.com](http://www.ncimed.com)

**United Minority Contractors of NC**  
5 West Hargett Street, Suite 309  
Raleigh, NC 27601  
(919) 834-1211  
[www.umcnc.org](http://www.umcnc.org)

**Hispanic Contractors Association of the Carolinas**  
226 Westinghouse Blvd.  
Charlotte, NC 29708  
(704) 583-4184  
[www.hcacarolinas.org](http://www.hcacarolinas.org)

**NC Indian Economic Development  
Initiative, Inc.**  
5800 Farrington Place  
Raleigh, NC 27609  
(919) 232-9414  
[www.ncindian.com](http://www.ncindian.com)

**Office for Historically Underutilized Businesses (HUB)**  
116 West Jones Street  
Raleigh, NC 27699-1336  
(919) 807-2330  
[www.doa.nc.gov/hub](http://www.doa.nc.gov/hub)