



## AdvantageGreen Energy Internships Program - Position Description

### About the Internship Program:

[AdvantageWest](#), the economic development partnership for Western North Carolina, has received funding from the State Energy Office of North Carolina to support the **AdvantageGreen Energy Internships Program**. This program will place nine, 12-month paid-internships with regional clean energy businesses and organizations providing experiential learning and training in a well-supported and supervised work environment. Through these positions, the program aims to create a pathway to full-time employment for talented recent graduates of NC colleges and universities, while at the same time helping expand our regional clean energy businesses.

### Eligible Applicants:

Applicants must be either (1) a graduate within the preceding three years of an accredited institution of higher education in the State of North Carolina; or (2) be a permanent resident of North Carolina who has graduated from an accredited out-of-state institution of higher education within the preceding three years.

### Host Business Info

**Business Name:** Deltec Homes

**Business Address:** 69 Bingham Road  
Asheville, NC 28806

**Type of Business:** Manufacturer of Green Homes (with sister company who does audits & energy retrofit work)

**Website:** <http://www.deltechomes.com/>

### Internship Position Information

**Position Name:** Green Building Coordinator

### Position Description:

This position involves working closely with the director of the green building department on its projects. Deltec's green department has a very broad range of responsibilities, providing an excellent mentoring environment for recent college graduates. A sampling of expected activities is summarized in the next section.

### Learning Objectives:

The candidate will be able to:

- Communicate effectively with customers the benefits and relative importance of key elements of green construction, including energy efficiency, durability, renewable energy, indoor air quality, resource conservation, and others. Provide thoughtful consideration to the climate in which the home is built and the homeowners goals to create a meaningful green strategy for each project.
- Engage and teach audiences of 5 to 100 the key aspects of green building.
- Design and manage the implementation of new products (such as insulation, solar hot water kits, advanced framing details, etc).
- Qualitatively research and design new building components to promote zero energy homes.
- Accurately estimate the cost of panelized building systems for local green builders. Assist in the management of projects from estimate through construction.
- Provide ongoing, objective analysis of the energy and waste use of Deltec's facilities. Design and manage new processes and building upgrades to achieve waste and energy savings.
- Conduct comprehensive home energy audits through Deltec's sister company using Building Performance Institute (BPI) standards. Produce detailed, prioritized recommendations for homeowners on the most cost effective improvements.
- Establish database to catalog and track the energy use of existing homes that are audited and/or improved.
- Provide basic building science training to weatherization crews of sister company. Assist with weatherization activities for a well-rounded understanding of effective energy retrofits.
- Study and understand the operations of our insulation business. Provide suggestions for streamlining operations and improving product performance.
- Research, design and implement specific energy and waste stream upgrades at main facility, including a potential grant-funded PV system expansion, plant-wide lighting system upgrade, and plywood scrap waste initiative.
- Review energy code compliance of hundreds of homes per year shipping throughout the world. Provide meaningful, cost-effective suggestions to homeowners and builders for reducing energy consumption and greenhouse gas emissions.
- Establish and implement a new energy modeling program with measurable, implementable recommendations for improvements during the design process.

The intern will develop additional skills that can be applied across a wide range of projects. The skills to be focused on for this position are organization, project management, energy calculations, budgeting, estimating, written communication and oral presentation.

**Additional Position Information:**

The intern will work mainly as a part of a team. The department's strengths are built on a foundation of hard work and collaboration. While individual responsibilities will be a key part of the position, the intern will work in a mentoring role with the department director.

**Duration:** The position will start in October 2010 and last 12 months  
40 hours/week, Monday – Friday

**Compensation:** \$15 / hr

**To Apply:** Please submit a resume, cover letter, and at least 3 references by email to:  
**Steve Linton, Director of Sustainable Technologies** [slinton@deltechomes.com](mailto:slinton@deltechomes.com)

\*At least one of your references should be from the college or university from which you recently graduated

**Applications will be reviewed and interviews conducted on an ongoing basis. This position is expected to be filled by September 22<sup>nd</sup>.**