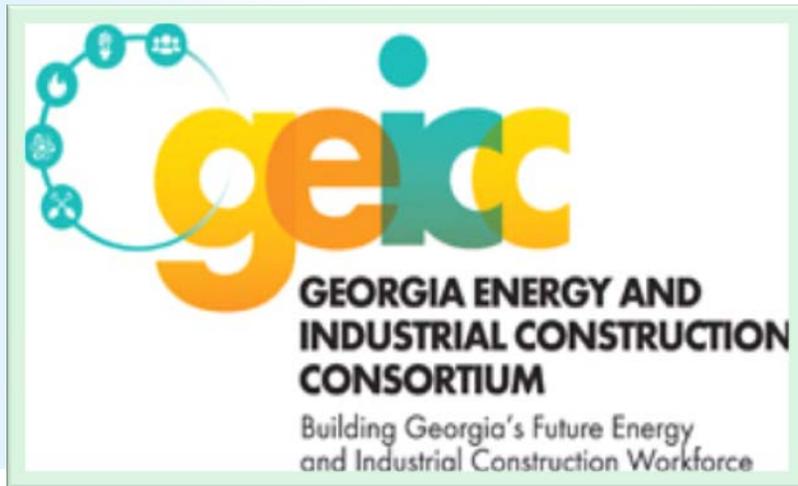


# E.N.E.R.G.E. Grant

THE ENGAGED NETWORKING ENERGY REGIONAL  
GEORGIA EDUCATION INITIATIVE



## Forging Partnerships

## Our Mission:

**Avert a Critical Shortage of Skilled Energy Workers**

- \* GEICC (Georgia Energy & Industrial Construction Consortium)
- \* The Georgia Department of Education (CTAE)
- \* Georgia Workforce Investment Board
- \* 7 Workforce Investment Boards
- \* Governor's Office of Workforce Development
- \* Georgia Department of Labor
- \* Atlanta/North Georgia Building and Construction Trades Council
- \* Technical College System of Georgia

**Forging Partnerships**

## College

Albany Technical College  
Altamaha Technical College  
Augusta Technical College  
DeKalb Technical College  
Lanier Technical College  
North Georgia Technical College  
North Metro Technical College  
Okefenokee Technical College  
South Georgia Technical College

## Non-College

Construction Education  
Foundation of Georgia (CEFGA)  
North Georgia Building  
Construction and Trades Council  
(AFL-CIO)

**Grant Sub-Recipients**

The 23 Technical College Programs Represent:

- \* Electric Utility
- \* Nuclear Power
- \* Transmission/Distribution
- \* Oil and Natural Gas
- \* Energy-Related Industrial Construction

Enhance and Expand 23 Existing Skilled Training Programs at 8 Technical Colleges

## Careers in Energy Week

Georgia's Careers in Energy Week became a national model. The relationship between the grant, GEICC and CEWD leverage new ideas.

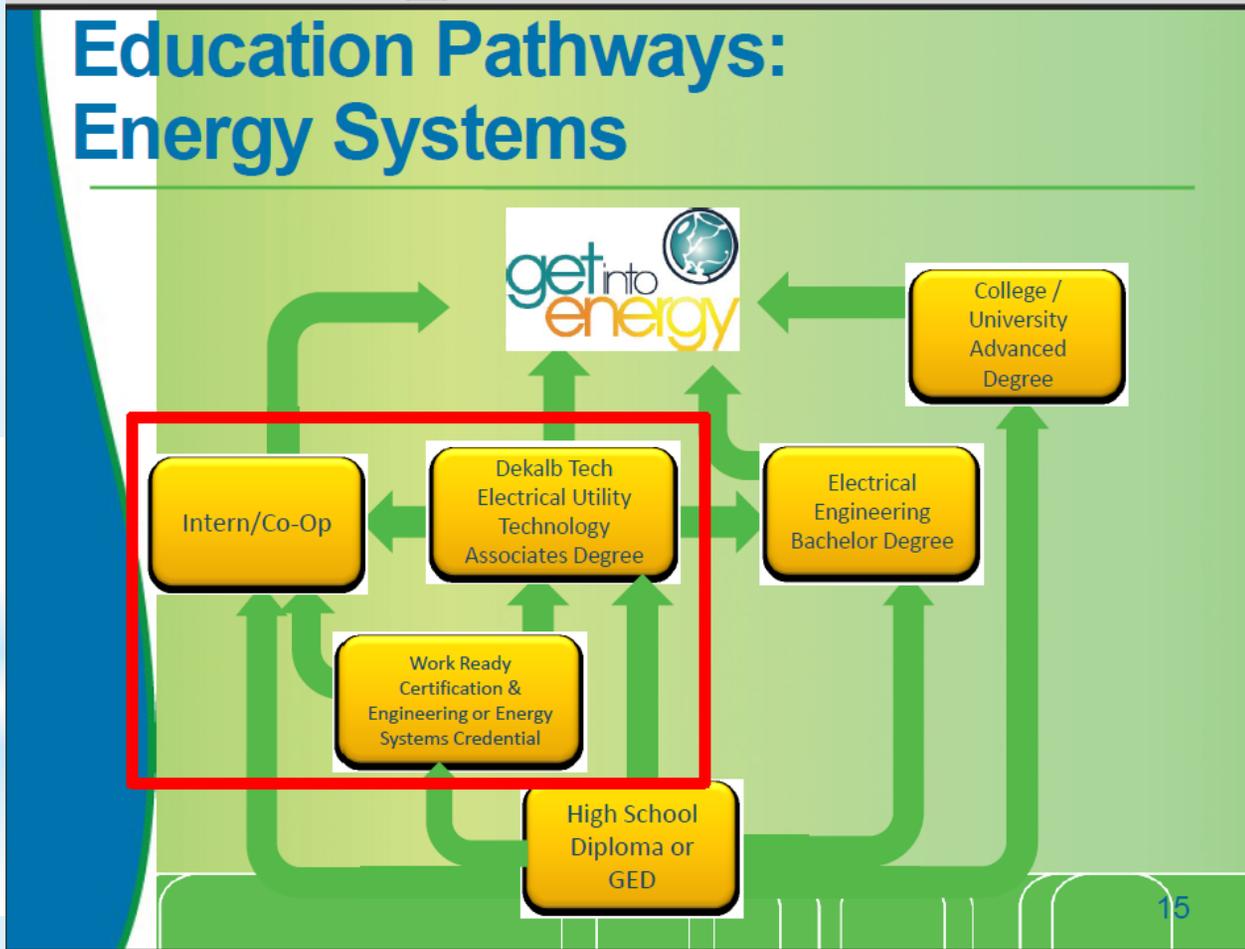
**Sustainability/Best Practices  
From Local To National**



Partners Pose With Gov. Sonny Purdue To Celebrate  
Careers in Energy Week Proclamation

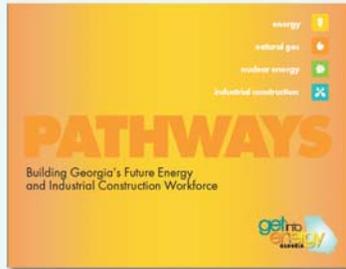
## Get Into Energy Career Pathways Model

An outgrowth of the GEICC partnership with ENERGE and CEWD. Now part of a Bill and Melinda Gates Foundation grant to prepare low-income, young adults for careers in the energy industry.

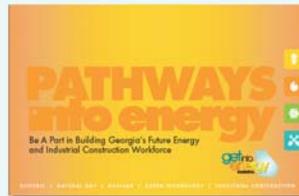


**Sustainability/Best Practices  
From Local To National And Back Again**

[www.getintoenergyga.org](http://www.getintoenergyga.org)



**POCKET FOLDER**



**BROCHURE**



**INSERTS**



# ENERGE Branding

## Industry-Educator Forums



ENERGE's  
1<sup>st</sup> major  
endeavor  
GEICC  
partnered  
with  
technical  
colleges and  
local industry  
to educate  
secondary  
teachers  
about careers  
in energy.

Burke County, home to nuclear Plant Vogtle, was home to the first forum. Partners from CEFGA, Georgia Power, Shaw Industries, Southern Nuclear and the Technical College of Georgia helped educate area teachers.

# Industry-Educator Forums



About OTC	Prospective Students	Current Students	Faculty & Staff	Economic Development	Adult Education/GED	Academic Affairs
-----------	----------------------	------------------	-----------------	----------------------	---------------------	------------------

Home | College News | Energy Forum Held at Plant Hatch

## Energy Forum Held at Plant Hatch

Area high school representatives joined instructors and staff from Okefenokee Technical College and Altamaha Technical College for an educator-industry meeting, May 6, 2009, at the Edwin I. Hatch Visitors Center in Baxley, Georgia. The meeting/workshop was sponsored by the Georgia Energy and Industrial Construction Consortium (GEICC). Participants learned about careers in energy and industrial construction and career paths available to area students.

The meeting included an Energy Forum in which representatives from the energy community shared their future workforce needs and the different career opportunities that exist in the energy industry. Panelists emphasized the need for employees with strong math and science skills.

The day was made possible by Georgia's ENERGE (Engaged Networking Energy Regional Georgia Education) Grant. The grant focus is to promote career awareness and career opportunities in the energy industry. Twenty-three programs are targeted at nine technical colleges across Georgia as training programs for energy industry labor pools. Okefenokee Technical College is one of the nine colleges selected as a recipient of the grant.



Forum presenters and panelists hope that participants will inform communities of the pending events that will create significant opportunities for individuals interested in a career in the energy industry. As they see it, due to an aging workforce and rising energy demands, the future holds energy workforce demands that far exceed supply. One example that was shared from the *US Bureau of Labor Statistics* was that "more than half of today's utility workforce will be eligible for retirement over the next 10 years." According to panelists, working in the energy field provides life-long opportunities, good benefits, and a lucrative career versus a job.

Search

Go



"The foundation we received and our clinical background in the respiratory therapy program gave us entrance into the jobs we have here. Our instructor always stressed treating each patient as a family member, so we came here with the heart to do our jobs. We strongly believe that if we take care of people, we will be taking care of business."

**Al Thomas, Angie Wheeler, Angie Simmons, Chad Herrin**  
Respiratory Therapy Technology  
Barnes Healthcare

[More Success Stories](#)

Okefenokee Tech hosted its forum at Plant Hatch, Georgia's first commercial nuclear facility.



## Summer Educator Academies

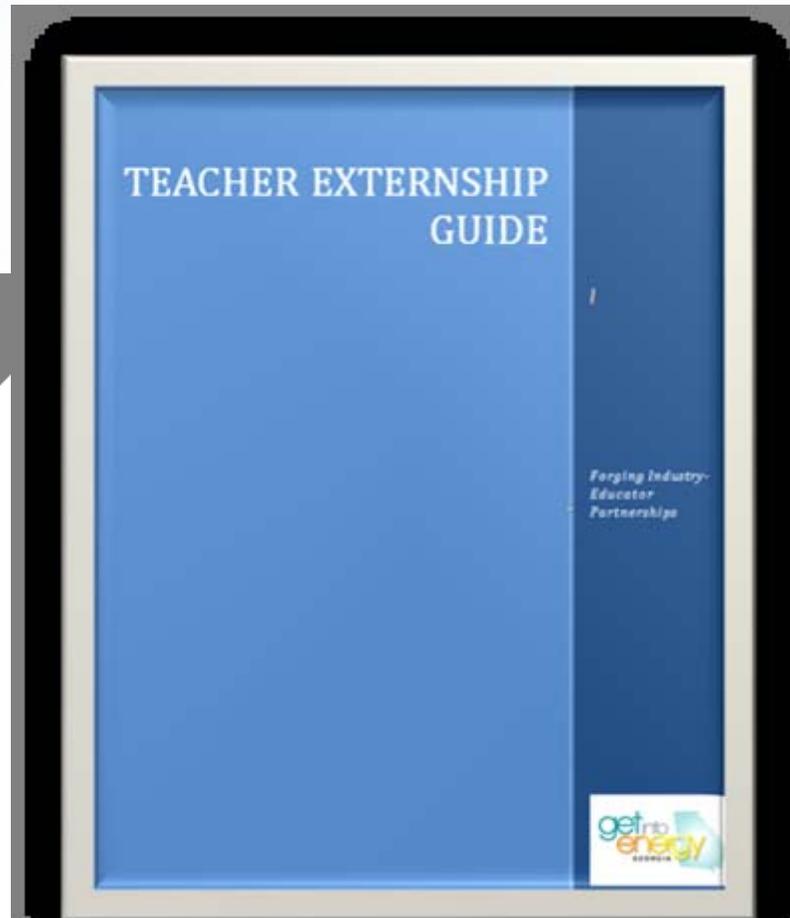
UDED  
RS VISITED  
RST-HAND  
HER GETS



## Summer Educator Academies

OTHER TEACHERS TOOK A RIDE IN A BUCKET TRUCK AND TRIED THEIR HAND AT WELDING. ON THE THIRD DAY, TEACHERS RETURNED TO DEKALB'S MAIN CAMPUS

TO LEARN ABOUT INDUSTRIAL TECHNOLOGY PROGRAMS OF STUDY. ONE TEACHER WAS SO IMPRESSED WITH THE PROGRAMS, HE NOW SERVES ON DEKALB TECH'S ENERGE ADVISORY COMMITTEE.



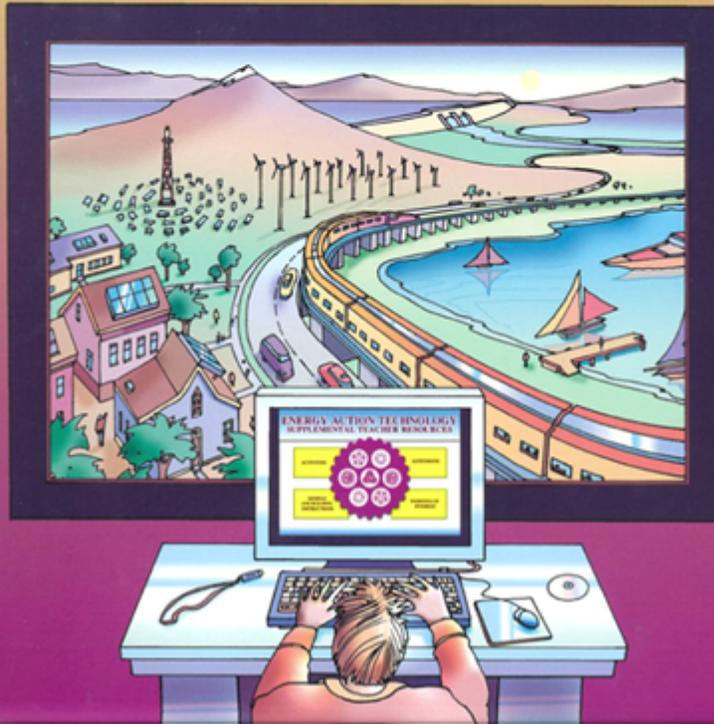
## Teacher Externships

F  
SUS  
WI

S  
\_ORS  
EIR

# ENERGY ACTION TECHNOLOGY

ENERGY EDUCATION TEACHING MATERIALS FOR GRADES 7-12  
An integrated approach to energy studies with a renewable energy focus



Think! Energy

DEKALB TECH, LANIER TECH AND NORTH GEORGIA TECH ALSO OFFERED NATIONAL ENERGY FOUNDATION TRAINING TO AREA EDUCATORS. TEACHERS RECEIVED VALUABLE RESOURCES AND TOOK PART IN FUN, HANDS-ON DEMONSTRATIONS APPLICABLE TO THEIR OWN CLASSROOMS.

Augusta Technical College Presents

Counselor eNewsletter:  
*E.N.E.R.G.E. EDITION!*



May 2009

Volume 1, Issue 2



As the school year comes to an end, you probably feel like you're running out of energy!

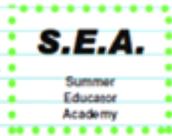
At Augusta Technical College, we're "LEAP"ing into E.N.E.R.G.E. and want you to know all about it, so the Summer issue of the eCounselor Newsletter is devoted to E.N.E.R.G.E.

You'll learn more about what E.N.E.R.G.E. is, what career opportunities exist in the energy field, and how to educate your students about energy careers.

Note the hard hat wearing frog logo above, designed by the **Augusta Technical College Printing and Graphics Technology department.**

The logo is meant to help identify the **Learn Educate and Participate** partnership between Augusta Tech and the state's E.N.E.R.G.E. initiative.

Hopefully this issue will help you **get energized!**



To educate local educators about E.N.E.R.G.E. field opportunities, Augusta Tech is hosting a Summer Educator Academy. Response has been phenomenal, and the **June 2009 class is full!**

The event is planned to be an annual activity to include visits to the MOX Facility at SRS and other E.N.E.R.G.E. related content.

Special points of interest:

- ✓ LEAP into E.N.E.R.G.E.
- ✓ SEA
- ✓ Career Opportunities in E.N.E.R.G.E.
- ✓ Summer Quarter
- ✓ New ADR-STEM Scholarship

Inside this issue:

SEA	1
Educator Info	1
What is E.N.E.R.G.E.?	2
E.N.E.R.G.E. website	3
Summer Quarter Enrollment	4
New ADR-STEM Scholarship	4
Contact Us!	4

**E.N.E.R.G.E. Info for Educators**

Is an energy career the right fit for a specific student? Take time to find out more about the knowledge and skills required for top utility jobs, as well as the salaries for various positions, because Teachers and Guidance Counselors can have

a major impact on a student's occupational choice. Careers in the energy industry are exciting and lucrative. Plus, with over 10,000 positions becoming available each year, there are plenty of opportunities available. After you've

had a chance to explore the array of careers on the Get into Energy site, learn more about how you can help your students in this special Teachers/Guidance Counselors section.

Adapted from  
[www.getintoenergy.com](http://www.getintoenergy.com)



Augusta Tech designed its own ENERGE logo to promote grant-related programs of study to high school counselors in its service area.

# Marketing Career Awareness & Promoting Career Opportunities



# Albany Technical College G.I.R.L.S Summer Camp



## Summer Camps

Students test connections on the solar-powered race track.



## Summer Camps

North Georgia Tech provided Junior LEGO and LEGO Engineering camps on three campuses. A total of 58 children participated in the week-long camps where they developed and/or enhanced their skills in science, technology, engineering, and mathematics. Students learned about different sources of energy on each day of the week. On Monday they explored solar energy and created cyanotypes using the sun. On Tuesday they made pin wheels, paper airplanes and rockets to explore wind energy. On Wednesday, they learned about water power while enjoying a dip in the pool. They discussed biomass on Thursday and wrapped up on Friday with a focus on energy conservation.





ers High School  
IS Girls Rock!

Welcome  
2

Girl  
Power

STEM One Empowerment  
ant

## STEM For Girls

DeKalb Tech hosted several girls-only workshops focusing on STEM and non-traditional occupations.



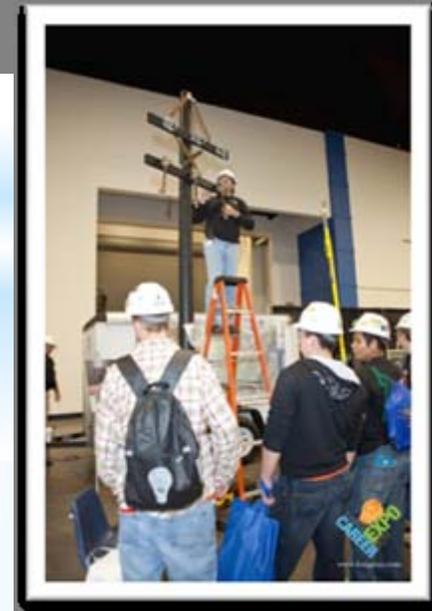
## CEFGA Career Expo & SkillsUSA State Championship

- 6,380 total attendance
- Students from 206 schools - 18% increase
- 311 companies sponsored exhibits - up 20%

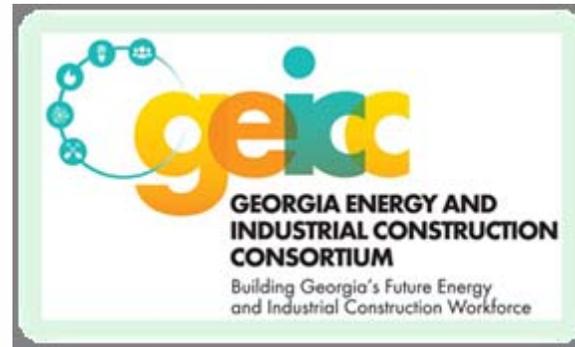




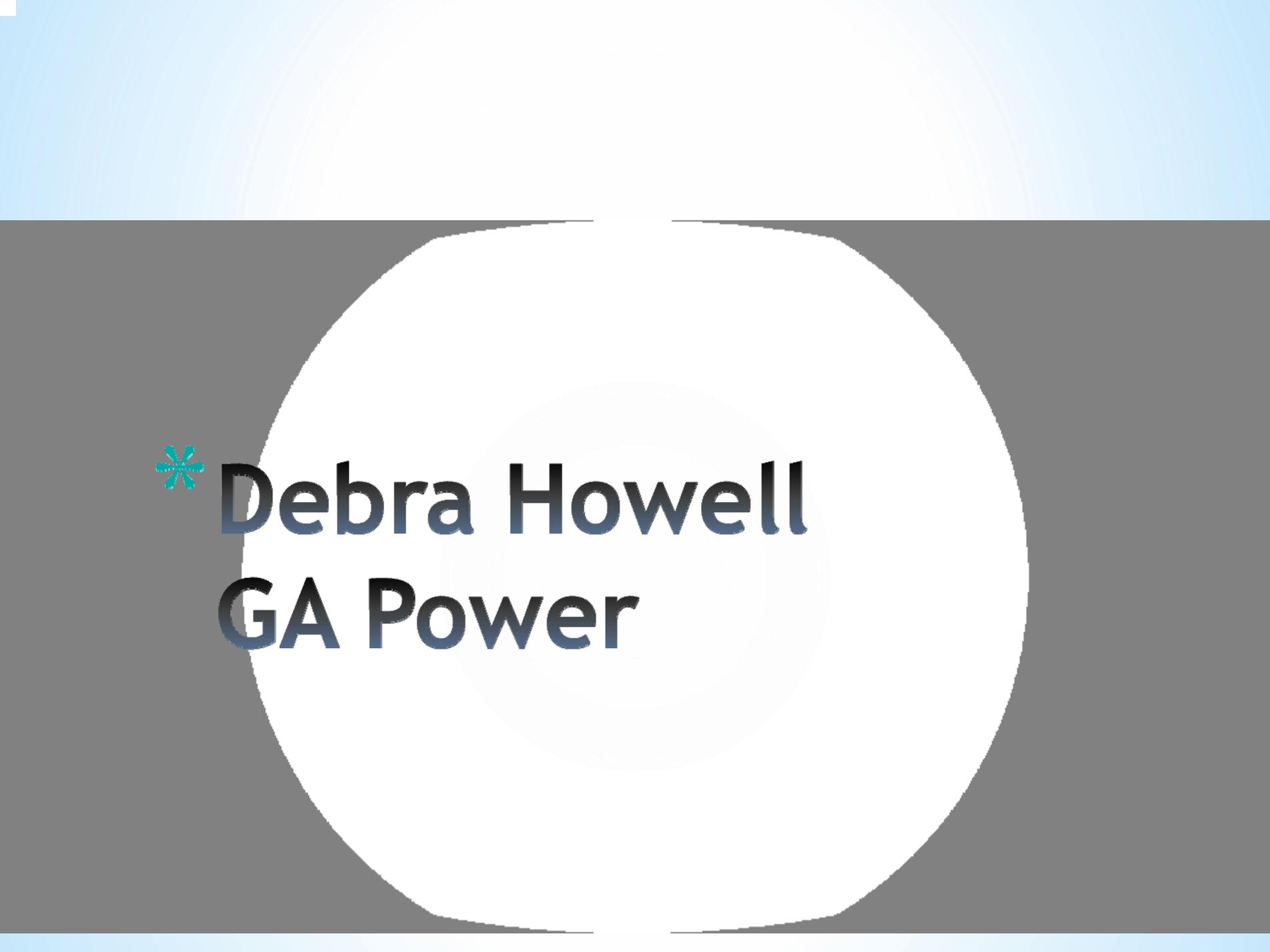
## 7th Annual CEFGA Career Expo & SkillsUSA State Championship



- Energy Training Opportunities
  - New Curriculums
  - On-line Course and Pre-interviews
- Sustainability/Relationships
  - Career Expo/SkillsUSA
  - Educators
  - First Robotics
  - Career Coaching



**Industry Partner Perspectives  
Sustainability**



\* **Debra Howell**  
**GA Power**



## POWER UP YOUR CAREER

### Nuclear Engineering Technology

- Power up your career at Augusta Technical College! The Nuclear Engineering Technology (NET) associate degree program will prepare you for a stable, rewarding, and well-paying career in the nuclear power industry.
- The NET program is a high-tech, two-year associate degree program that provides an outstanding foundation for jobs in nuclear plant maintenance and non-licensed operations.
- Here in the Central Savannah River Area, and across the country, nuclear power is experiencing a renaissance. Be a part of the future of nuclear by earning a NET degree from Augusta Technical College!

**Get started now! The NET Program starts Fall 2010**

**FIND OUT MORE BY ATTENDING ANY ONE OF THESE INFORMATION SESSIONS:**

**Augusta Campus (ITC/Library Auditorium)**

Thursday, April 22 at 12:00 pm and 6:00 pm  
Thursday, April 29 at 12:00 pm and 6:00 pm  
Thursday, May 27 at 12:00 pm and 6:00 pm

**Waynesboro Campus (Auditorium)**

Thursday, May 6 at 12:00 pm and 6:00 pm

**Thomson Campus (Auditorium)**

Thursday, May 13 at 12:00 pm and 6:00 pm

For more information, call (706) 771-4000 or log on to [augustatech.edu](http://augustatech.edu)

**Application Deadline: July 15**

(Submissions received after July 15 will not be considered)



A Unit of the Technical College System of Georgia  
[www.augustatech.edu/leap](http://www.augustatech.edu/leap)

EDE MFDV

# New College Curriculums

Lanier Technical College  
Electrical Utility Technology  
Program Outline

General Core Courses: 15–20 Credit Hours

Occupational Courses	Credit Hours
EUT 101 Intro To Electrical Utility Industry	4
EUT 102 Fundamentals Of Power/Alt. Currents	6
EUT 103 Network Communications	6
EUT 104 Electrical Substations	6
EUT 105 Intro To Distribution Engineering	6
EUT 106 Intro To Metering	4
EUT 107 Power Plant	6
IFC 101 Direct Current Circuits I	4
IFC 102 Alternating Current I	4
SCT 100 Introduction To Computers	3
— Electives / Internships	23

The Electrical Utility Technology  
program at Lanier Technical  
College is the only one of  
its kind in the state.



[www.laniertech.edu](http://www.laniertech.edu)

As set forth in its student catalog, Lanier Technical College does not discriminate on the basis of race, color, creed, national or ethnic origin, gender, religion, disability, age, political affiliation or belief, marital status, or citizenship status (except in those special circumstances permitted or mandated by law).

Title IX Coordinator  
Lisa Wilcox  
Vice President of Student Affairs  
Student Affairs Office  
Room 2014, Oakwood Campus  
770-531-2558

Section 504 Coordinator  
Jennifer Phillips  
Coordinator of Special Populations  
Student Affairs Office  
Room 1318-A, Oakwood Campus  
770-531-4346

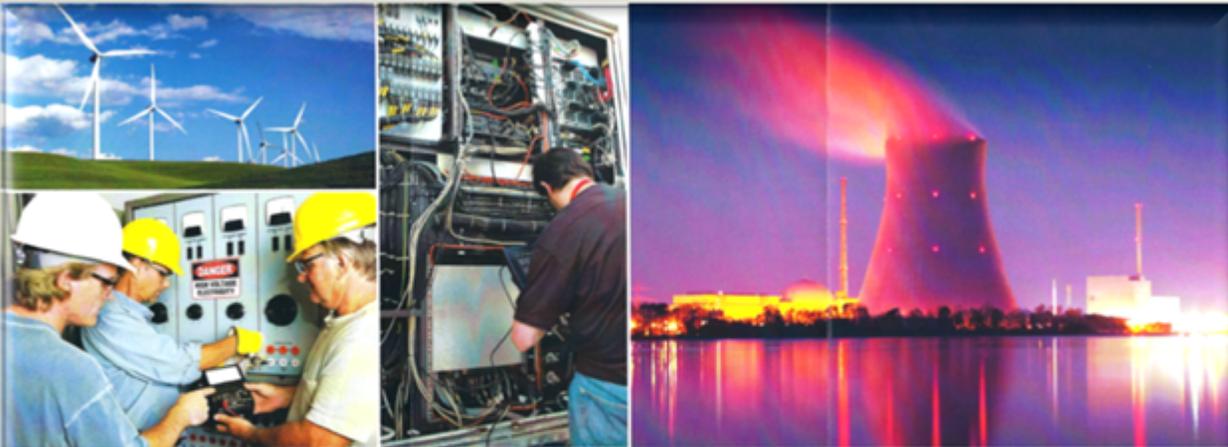
This product was partially funded by a grant awarded under the President's High Growth Job Training Initiative as implemented by the U.S. Department of Labor's Employment & Training Administration. The information contained on this product was created by a grantee organization and does not necessarily reflect the official position of the U.S. Department of Labor. All references to non-governmental companies or organizations, their services, products, or resources are offered for informational purposes and should not be construed as an endorsement by the Department of Labor. This product is copyrighted by the institution that created it and is intended for individual, organizational, non-commercial use only.

ELECTRICAL UTILITY  
TECHNOLOGY



A Unit of the Technical College System of Georgia

New College Curriculums



**IT ONLY TAKES A SPARK TO GET A CAREER GOING.**

The electric utilities in Georgia – Georgia Power, MEAG Distribution Services, Georgia Electric Cities and the Georgia Electrical Membership Corporations – need skilled workers to help supply the growing demands for electricity. Currently there is a shortage of qualified workers to fill the positions of engineering technician, pre-engineering technician, substation maintenance technician, meter technician, and generator technician across the state of Georgia and the Southeast. These positions require more training and technical skill than other entry-level electrical utilities positions.

Contributing to the shortage of skilled electrical utility workers is the fact that almost half of the 400,000 industry workers in the United States are eligible to retire in the next five to 10 years,

according to Carnegie Mellon University's Electricity Industry Center. The industry has already experienced a 40% reduction of its workforce since 1990 in response to deregulation, the center says.

In order to fill the need for skilled employees, a consortium of electrical providers has partnered with the Georgia System of Technical Colleges to set up a comprehensive training program at Lanier Technical College in Oakwood. Beginning fall quarter, Lanier Tech will offer an Associate of Applied Science degree and a shorter diploma program in Electrical Utility Technology. The courses in these programs will cover a broad range of topics that will prepare graduates for positions in the generation, transmission, and distribution sectors of the electrical utilities system.

**“Our ability to grow technical talent to meet the needs of the energy industry focused on mathematical concepts, technical skills and hands-on learning will be key to our future success.”**

The Electrical Utilities program at Lanier Tech is focused on meeting future needs of engineer technicians, meter technicians, pre-engineering, substation technicians and entry level plant skills. The energy industry has been involved in the development of this training program and will continue to serve in an advisory role to ensure the course is meeting the needs today and in the future.”

*Debra Howell, Georgia Power  
CSO Workforce Development Manager*

**New College Curriculums**



**ELECTRICAL LINEWORKER  
APPRENTICE COURSE**

**Who'll  
Fill  
These  
Boots?**

GEORGIA POWER  
A SOUTHERN COMPANY

Flint Energies

Mitchell EMC  
Member Electric Membership Corporation

PIKE

ELECTRIC  
Cities of Georgia

Distribution Services  
an Independent Business Unit of W.A.C. Power

Sumter Electric  
Membership Corporation

Crisp County  
Power Commission

# Electrical Lineworker Apprenticeship Program



# Electrical Lineworker Apprenticeship Program



Careers in energy provide a wide range of options - from operating crew to meter installer to vehicle maintenance

**Energy Jobs**  
(Photos courtesy of Southern Company)



Engineering jobs come in many forms in the power industry. The control room is the heart of a power plant.

**Energy Jobs**  
(Photos courtesy of Southern Company)



## Energy Jobs

(Photos courtesy of Southern Company)



**Energy Jobs**  
(Photos courtesy of Southern Company)

\* **Odie Donald**  
**TCSG/GEICC**

We've run into a few roadblocks and speed bumps,  
but with a strong partnership in place we've  
overcome the major obstacles.



## ROADBLOCK

- ⚠️ College schedules don't align with ETA Form 9134 deadlines
- ⚠️ Online Course Development
- ⚠️ Changes in Leadership
- ⚠️ Exceeding Expectations

## Exiters

- ⚠️ Report in the Narrative Section when final information is available.
- ⚠️ Industry Guidance
- ⚠️ New ideas/perspectives
- ⚠️ First Class products!

OVERCOMING ROADBLOCKS