

Internships and Apprenticeships

August 18, 2016





Webinar Details

- For this webinar you will be in listen only mode using your computer or phone
- Please ask questions via the question window
- This webinar is being recorded you will be sent a recording link

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ATECENTERS

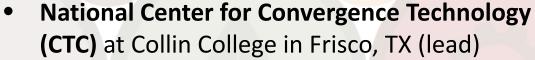
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The CCTA IS Led By







 South Carolina ATE National Resource Center (SCATE) at Florence Darlington Technical College in Florence, SC



Florida ATE Center (FLATE) at Hillsborough
 Community College in Tampa, FL



 Bio-Link Next Generation National ATE Center for Biotechnology and Life Sciences (Bio-Link) at City College of San Francisco in San Francisco, CA



Networks Resource Center at the Maricopa Community College District in Phoenix, AZ

CCTA Purpose

- Respond to a request from the Department of Labor (DOL) to the NSF to have ATE Centers provide technical assistance services to DOL TAACCCT grantees
- Activities relevant for DOL grants, NSF grants and workforce-oriented programs of all kinds
- Deliverables
 - Topical webinars on existing and new solutions
 - Live/recorded with attendee Q&A
 - Identify and document best practices
 - Host convenings



TODAY'S PRESENTERS



Elaine Craft
Executive Director & PI
SC ATE Center
CCTA Host



Ann Beheler
Executive Director & PI
Convergence Technology Center
CCTA Webinar Moderator



Rick Roberts
Assistant Director
SC ATE Center
Presenter: Internships



Barbara Murray
Executive Director & PI
SMART Center
Presenter: Apprenticeships



Lois McIntosh
LMcIntosh Career Workforce
Consulting,
Discussant

Internships



- ✓ Internship Elements
- √ The South Carolina ATE Model

Purpose

Design

Program Review/Feedback



Internship Elements

- Disciplines & Qualifications
- Time of Year & Duration

The average internship lasts about a semester (four months)/ or summer.

Hours

Some internships are full-time, most range from 10 - 30 hours per week

Paid/Unpaid

Can be paid (preferably) or unpaid (typically), Normally, an intern does not receive employee or retirement benefits. The <u>U.S. Department of Labor's Fact Sheet #71: Internship Programs Under the Fair Labor Standards</u>

<u>Act</u> provides guidance regarding whether your interns should be paid the minimum wage.

Credit/Not-for-Credit

Can be for credit or not for credit, or any combination of paid/unpaid and credit or not for credit. Internships for-credit should include input from a faculty adviser or academic counselor.

Insurance/Benefits

Insurance/ benefits packages sometimes are offered through employer. This is more exception than the rule.

Monitoring/Evaluation

Each semester, the participating company and college faculty advisors should evaluate student intern work and academic performance. This would include work ethic, dependability, teamwork, flexibility, communication skills, organizational skills, overall performance on the job.







SC ATE Internship and Industry Consortium Model

Our Premise/Purpose:

Makes learning relevant

ATE internships provides the student with a unique opportunity to gain academic and practical experience simultaneously

- Promotes student employability
- Employers build their own future workforce

Through the ATE Internship the College and participating industries prepare students for rewarding careers as highly skilled technicians through a cooperative arrangement that combines classroom theory with practical, on-the-job experiences in their industry

Industry consortium bylaws level the playing field

Area industries and the College collaborate in the on-going development, implementation, and evaluation of internship requirements. Industry drives Consortium Policy and Guidelines

College provides flexibility to align with industry needs Talk more about this later (Scheduling, coursework sequences etc)



Internship and Industry Consortium Model

Industry partnership elements:

- Employers within consortium define the program parameters (all day, year round, pay etc.)
 Industry Consortium members participate directly in the student screening and selection process, review of resume's. The also determine maximum pay, recommended/established Tues/Thursday student work schedule. Industry drives parameters and dictates their needs, college adjusts to that need.
- Starting pay for all Industry Consortium members is equal
 Each company will start the Interns at same per hour rate for all internships
 Company has latitude to increase after first (3) months of internship (Non compete wage statement)
 Since not tied to academic credit so can be for extended periods of time
- Participating companies agree not to hire prior to graduation from FDTC Providing paid, work experience in a related field through time of graduation.

Internship and Industry Model



Industry Collaboration:

Essential

Provides qualified individuals for area industries through an on-going, proven process of selecting, training, and promoting high-quality technicians. Industry dictates needs and when you meet those needs they will continue to come back to the college for filling those needs so the model is SUSTAINABLE. We host a Industry Consortium each year to review history, bylaws, guidelines and recruit new industries to the table (Each Fall) This year combined with internship recruitment fair.

Sustainable

ATE Internships enable any deserving student to obtain an associate degree in selected engineering and industrial technology fields regardless of the student's financial status by providing paid cooperative work experiences. Companies agree to notify ATE interns of any full-time employment opportunities, based on company needs most of the time leading to long term sustainable employment

Flexible

Incorporates essential knowledge, skills, and experiences into a coordinated sequence of academic courses and on-the-job training. Provides alternative educational experiences for academically qualified individuals entering technical careers in our area.



Internship and Industry Cons Model



ATE Student Intern Qualifications:

Disciplines

Computer Technology/Network Systems Management, Industrial

Technology, or Engineering Technology

GPA Requirements

An ATE Scholar is expected to maintain a minimum GPA of 2.50

Hours-Work-Flexibility

The participating student attends class approximately twenty hours each week and works at his or her company fifteen to twenty hours per week. Additional work hours are contingent upon the company's need and student GPA.



Internship and Industry Consortium Model

SOUTH CAROLINA ADVANCED TECHNOLOGICAL EDUCATION CENTER OF EXCELLENCE

How the SC ATE Center/FDTC Internship Works

- Paid internships not tied to academic credit
 ATE Internships are paid and students at this time receive no additional credit hours
- Course scheduling by the college to accommodate T & Th full-day internship work.

 ATE Internship students course work is scheduled in a sequence and timing that allows for internship/work opportunities (ie....Course sequence is M-W-F and work (internship is scheduled with consortium members for T-TH. (relationships with faculty are key)
- Duration can begin in 2nd semester & continue through graduation
 ATE Internships are year round starting as early as the students second semester. Eliminates any restrictions of duration of any internships
- Hours limited to 20/wk. (exceptions only if GPA>3.0)
 Students must maintain a GPA level of 3.00 or better to be eligible to work over twenty (20) hours per week while school is in session.





SC Internship and Industry Consortium Model



How the SC ATE Center/FDTC Internship Works

- Benefits/Insurance depends on company & how student is paid
 - College student insurance covers work-based learning (Liability etc)
 - Other benefits only if employer provides (Very rare for this to occur)
- Payment methods
 Industry hires/pays intern directly

Intern hired through an employment agency or third party hiring agency. Usually this seems to be short term and then looks for longer term employment need ($1^{st} \sim 3$ mo.)

Intern paid via stipend donation to FDTC Foundation

SC ATE Internship and Industry Consortium Model

FDTC Foundation Payment Option:

- Paid a stipend at hourly rate for hours worked
- Paid bi-weekly

SC ATE provide monthly time/pay sheets

- Students receive 1099 at year end
- Foundation staff
 - Facilitate security background checks
 - Arrange for drug screening
 - Pay interns
 - Invoices employers for intern payments and service charge
- Service Charges go to the ATE account in the Foundation to support student recruitment, ATE student activities, and SC ATE Industry Consortium meeting expenses and sustainability needs.







SC Internship and Industry Consortium Model

College Flexibility and Support:



Managed by college staff in SC ATE Center

Resume Review with students, Assistance with resume screening for industry partners, Interview scheduling, Pre-employment services in conjunction with FDTC Foundation, (ATE MOA, Drug Screening, time sheets), tours of industry facilities and appropriate record keeping for each student intern.

- Collaboration with faculty & employers
- Coordinated with other benefits for ATE Students
- Evaluation

Each semester, the participating company and Florence-Darlington Technical evaluate ATE interns work and academic performance. Usually also involves internship on site at least one time per semester. Evaluating those areas previously mentioned.



Internship and Industry Consortium Model



- Students
 - Provides paid work experience in a related field Provides better-than-minimum wage employment High %-Leads to employment after graduation
- Employers

Expanded access to engineering/industrial technicians
Opportunity to screen and select interns
Flexible-length internships
Opportunity to grow a future, job-ready workforce



Cost-effective public-private partnership that supports economic development





Barbara Murray

The SMART Center

Executive Director and Principal Investigator

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www.maritime-technology.org

GREAT BRIDGE



The SMART Center serves as a regional ATE center and is an economic model for developing a sustainable, globally prepared maritime and transportation workforce for the 21st century through partnership with vital industry and educational entities

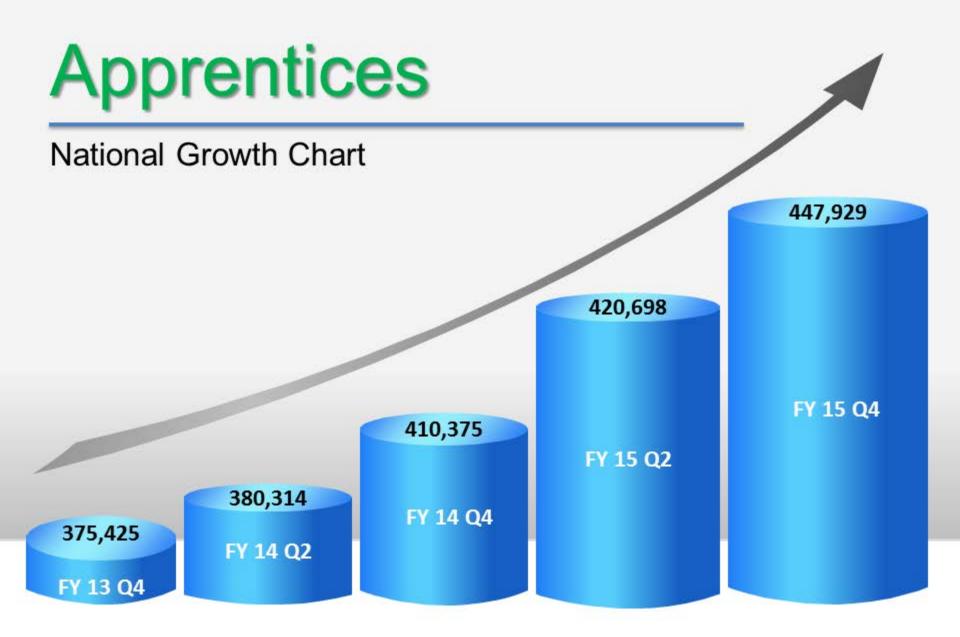
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What is registered apprenticeship?



Employer Involvement



Structured
On-the-Job
Learning



Related
Training and
Instruction



Rewards for Skill Gains



National Occupational Credential

Five Core Components of Registered Apprenticeship



Registered Apprenticeship Facts and Figures

Did You Know? 150,000 400,000 \$50,000

Employers and Labor
Management
Organizations Participate
in Registered
Apprenticeship.

Registered Apprenticeships Nationwide in More than 1,000 Occupations. Average Starting Salary of Apprentices Per Year While Earning a Credential Equivalent to a 2 or 4 Year College Degree

\$300,000

Amount Workers Who Complete Registered Apprenticeship Programs Earn More Over a Lifetime Than Peers \$1.47 per \$1.00

For Every \$1 Spent on Registered Apprenticeship, Employers Get an Average of \$1.47 Back in Increased Productivity



Registered Apprenticeship By the Numbers

456,989

Current Number of Apprentices

200,000

New Apprentices in 2015

50,000

Completed Apprentices in 2015

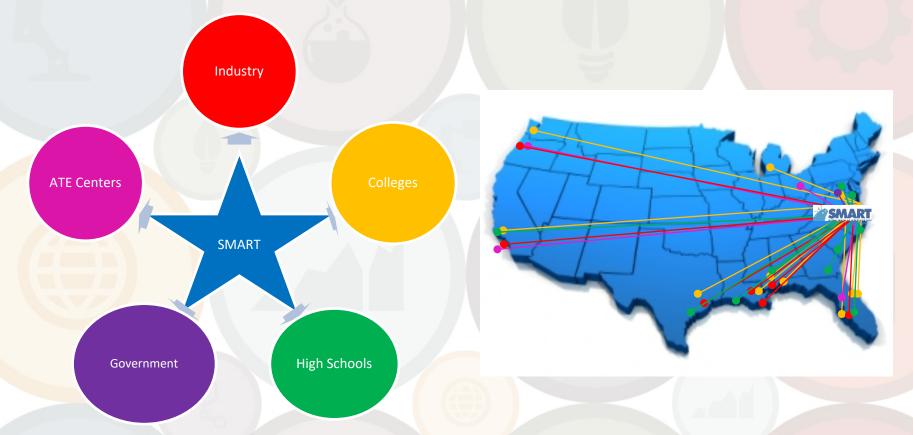
20,000

Active Programs in 2015





Regional and National Apprenticeship Partnerships













REGISTERED

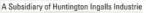
Earn, Learn, Succeed.

APPRENTICESHIP

Join RACC...

BAE SYSTEMS











































GENERAL DYNAMICS









...Since 1914













REGISTERED APPRENTICESHIP COLLEGE







- Job Tasks Developed with Industry/Employers
- Minimum of 2,000 Hours = One Year of Training
- Over 1,000 Apprenticeable Occupations
- Real World Environment







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New "Make the SMART Choice" Video Shows how Maritime Offers Step t...

The SMART Center has released a new installment in its "Make the SMART Choice" video series showing how today's maritime industry employers are offering workers a great pathway into stable, great-paying careers. The video tells the story of how Auxiliary Syste...

Read more about this





MART Center PI, US Department of Labor Office of

aura Ginsburg, Team Leader at the U.S. spartment of Labor's Office of Apprenticeship, invited SMART Center P...



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Why Smart?

The Southeast Maritime and Transportation (SMART) Center is the only National Science Foundation Advanced Technology Education (NSF ATE) Center solely focused on increasing the number of well-qualified, skilled technicians in the

maritime and transportation industry.

Dead more about SMADT

Featured Careers

Ship Pilot

 Consult maps, charts, weather reports, and navigation equipment to determine and direct ship movements.2) D... read more

Second Mate

The second mate is responsible for maintaining the bridge

Upcoming Events

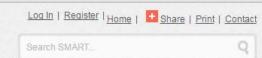




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great

Careers Career Pathways Videos Apprenticeship

Dual Enrollment

Aptitude Quiz





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Upcoming Events





Why registered apprenticeship?

Build a Competitive Workforce

Employers Facing Complex Workforce Challenges in Competitive Domestic and Global Markets





Time-Tested Model

Proven Strategy for Recruiting, Training and Retaining World-Class Talent Used by Industry for Decades (and longer!)

Adaptable and Flexible

Registered Apprenticeship is a Solution and Can Be Integrated into existing Training and Human Resources

Development Strategies!!!



Registered Apprenticeship Credentials



Employer Credentials

- ✓ Nationally Recognized Certificate of Registration
- ✓ National Recognition as an ApprenticeshipUSA LEADER

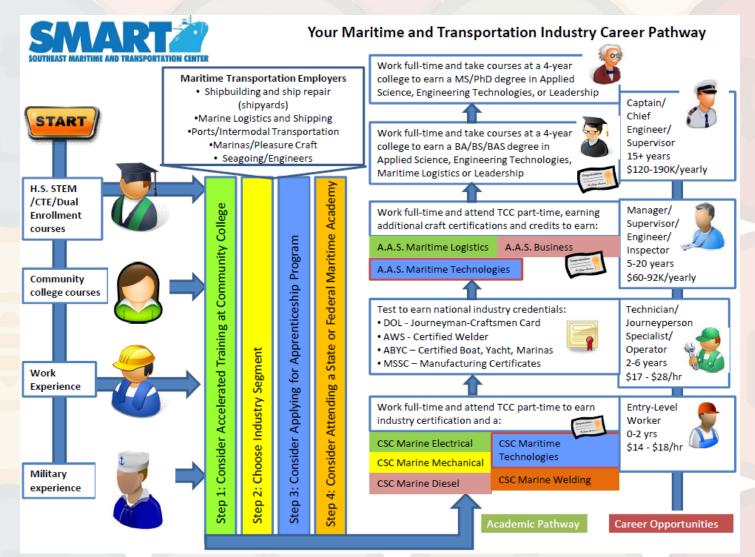
Apprenticeship Credentials

- ✓ Nationally Recognized Certificate of Completion
- ✓ Interim Credentials
- ✓ Stackable Credentials
- ✓ Opportunity to Earn College Credits, Certificates, Diplomas & Degrees

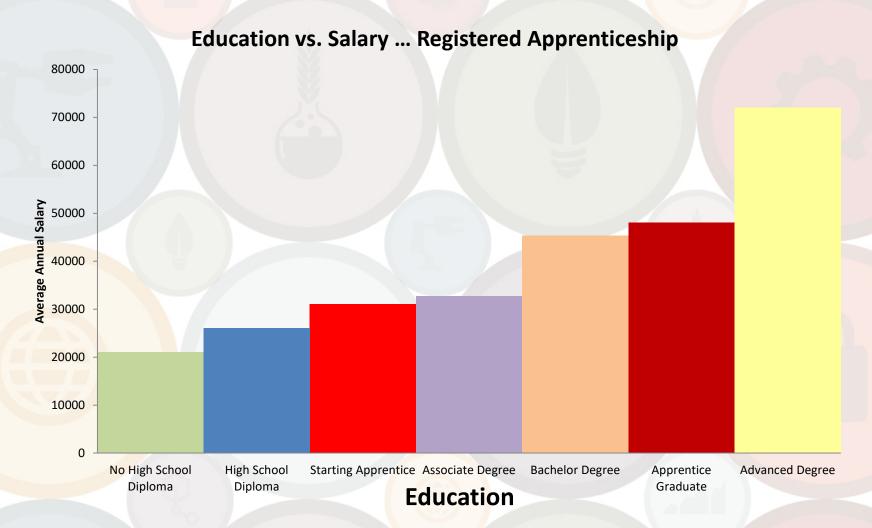




SMART Maritime Career Pathways With Registered Apprenticeship



Apprentices "earn and learn", resulting in higher pay from the beginning and early graduation.



Most new apprentice graduates earn more than students graduating with a Bachelor's degree.





Education in Maritime and Transportation Pays

Education/Experience	Maritime Jobs	Pay Range	Transportation Jobs
Master's Degree / Bachelor's Degree with Experience	 Industrial Engineer Nuclear Engineer Project Supervisor Electrical Engineer Mechanical Engineer 	\$75K - \$100K Yearly	 Industrial Engineer Supply Chain Manager Electrical Engineer Civil Engineer Captain
Bachelor's Degree	Production Manager Health & Safety Inspector Logistics Manager	\$60K - \$90K Yearly	 Transportation Manager Distribution Center Supervisor Ports Logistician Ocean Engineer
Registered Apprenticeship / Journeyman	Marine Welder Inside/Outside Machinist Shipfitter Rigger	\$41K - \$68K Yearly	 Freight Forwarder Marine Designer Longshoreman HVAC Technician Welder
Associate's Degree / Certifications or College Coursework & 1-2 Years Experience	 Electrical Technician Mecatronics Tech CAD/Designer Marine Maintenance Instrumentation 	\$17 - \$26 Hourly	 Production/Planning Clerk Crane and Tower Operator
Intensive Training Programs	Certified Welder Maritime Electrician Mechanics	\$15 - \$25 Hourly	 Rail-Track Laying and Equipment Operator Heavy Vehicle Service Tech
High School Diploma or GED	• Welder • Helper • Fire Watch	\$8 - \$15 Hourly	 Freight, Stock and Material Mover Shipping, Receiving and Traffic Clerk





The Nuts & Bolts of Work-based Learning Opportunities

- When to place students?
- How to prepare employers as hosts?

- Interns Wanted
- How to organize within your institution?
- How to prepare students for success?
- How do you facilitate good matches?
- What about evaluation?





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http://www.atecenters.org/ccta



