

Internships and Apprenticeships

August 18, 2016

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CCTA | CENTERS COLLABORATIVE FOR TECHNICAL ASSISTANCE

Webinar Details

- For this webinar you will be in listen only mode using your computer or phone
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Disclaimer: This material is based upon work supported by the National Science Foundation under Grants # 1205077 and # 1261893. Any opinions, findings and conclusions or recommendations expressed in this material are those of the author(s) and do not necessarily reflect the views of the National Science Foundation.





The CCTA IS Led By





NETWORKS

TECHNICAL ASSISTANCE



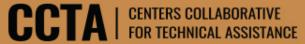
GY CENTER

- National Center for Convergence Technology (CTC) at Collin College in Frisco, TX (lead)
- 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





Poll #1: Your Affiliation

- A. I am involved with an NSF grant
- B. I am involved with a TAACCCT grant
- C. Both
- D. Neither





Poll: How many people are listening with you?

- A. None B. 1
- C. 2

D. 3 or more





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

CCIA

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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





Poll: Internship Participation

- A. I am involved in maintaining an Internship Program
- B. I am interested in beginning or expanding an internship program
- C. I am not involved with an internship program at this time





Internship Elements

- Disciplines & Qualifications
- Time of Year & Duration
- Hours
- Paid/Unpaid
- Credit/Not-for-Credit
- Insurance/Benefits
- Monitoring/Evaluation









SC ATE Internship and Industry Consortium Model

SOUTH CAROLINA ADVANCED TECHNOLOGICAL EDUCATION

Our Premise/Purpose:

- Makes learning relevant
- Promotes student employability
- Employers build their own future workforce
- Industry consortium bylaws level the playing field
- College provides flexibility to align with industry needs





Internship and Industry Consortium Model

Industry partnership elements:



- Employers within consortium define the program parameters (all day, year round, pay etc.)
- Starting pay for all Industry Consortium members is equal
- Participating companies agree not to hire prior to graduation from FDTC





Internship and Industry Consortium Model CAROLINA

Industry Collaboration:

- Essential
- Sustainable
- Flexible

WANTED: A ROCKSTAR AMA7ING CREAT DYNAMIC.UNIQUE HARD-WORKING INTERN

IS THAT YOU?





SOUTH

ADVANCED TECHNOLOGICAL EDUCATIO

CENTER OF EXCELLENC

Internship and Industry Consortium Model

ATE Student Intern Qualifications:

Disciplines

Computer Technology/Network Systems Management, Industrial Technology, or Engineering Technology

- GPA Requirements
- Hours-Work-Flexibility

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CAROLIN/

Internship and Industry Consortium Model



How the SC ATE Center/FDTC Internship Works

- Paid internships not tied to academic credit
- Course scheduling by college to accommodate T & Th full-day internship work
- Duration can begin in 2nd semester & continue through graduation
- Hours limited to 20/wk. (exceptions only if GPA>3.0)





SC Internship and Industry Consortium Model



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How the SC ATE Center/FDTC Internship Works

- Benefits/Insurance depends on company & how student is paid
 - College student insurance covers work-based learning
 - Other benefits only if employer provides
- Payment methods
 - Industry hires/pays intern
 - Intern hired through an employment agency (1st ~ 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
- Students receive 1099 form at year end
- Foundation staff
 - Facilitate security background checks
 - Arrange for drug screening

TECHNICAL ASSISTANCE

- Pay interns
- Invoice 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.





POLIN

SC Internship and Industry Consortium Model

College Flexibility and Support:



- Managed by college staff in SC ATE Center
- Collaboration with faculty & employers
- Coordinated with other benefits for ATE Students
- Evaluation







Internship and Industry Consortium Model



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Students

Provides paid work experience in a related field Provides better-than-minimum wage employment 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

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Barbara Murray

The SMART Center Executive Director and Principal Investigator 60

Virginia Beach

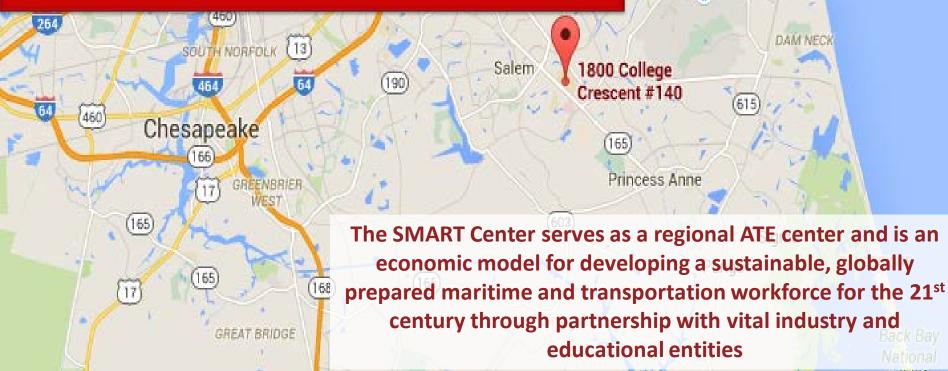
Bay Island

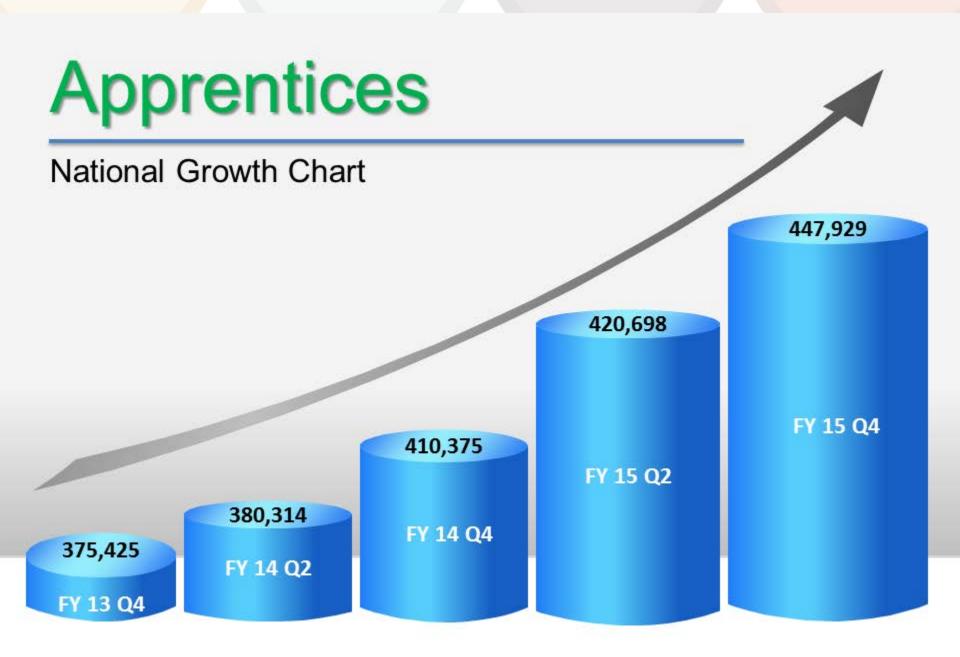
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Station Oceana

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www.maritime-technology.org









What is registered apprenticeship?











Employer Involvement Structured On-the-Job Learning

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Related Training and Instruction Rewards for Skill Gains

National Occupational Credential

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Five Core Components of Registered Apprenticeship

Registered Apprenticeship Facts and Figures Did You Know?

150,000

Employers and Labor Management Organizations Participate in Registered Apprenticeship.

400,000

Registered Apprenticeships Nationwide in More than 1,000 Occupations.

\$50,000

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

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\$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**

New Apprentices in 2015



20.000

200,000

Completed Apprentices in 2015

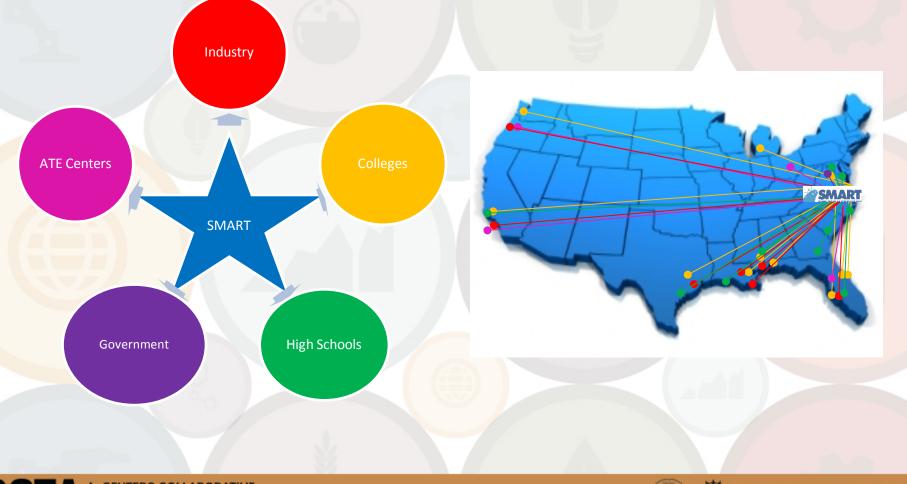
Active Programs in 2015



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Regional and National Apprenticeship Partnerships



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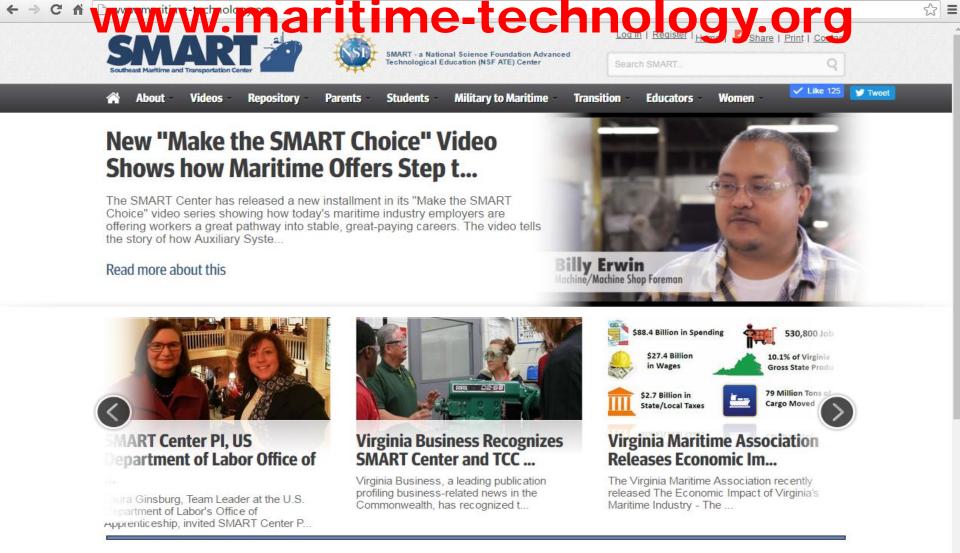




Job Tasks – Developed with Industry/Employers

- Minimum of 2,000 Hours = One Year of Training
- Over 1,000 Apprenticeable Occupations
- Real World Environment

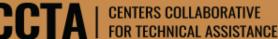




Why Smart?

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 SMART



Featured Careers

Ship Pilot

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

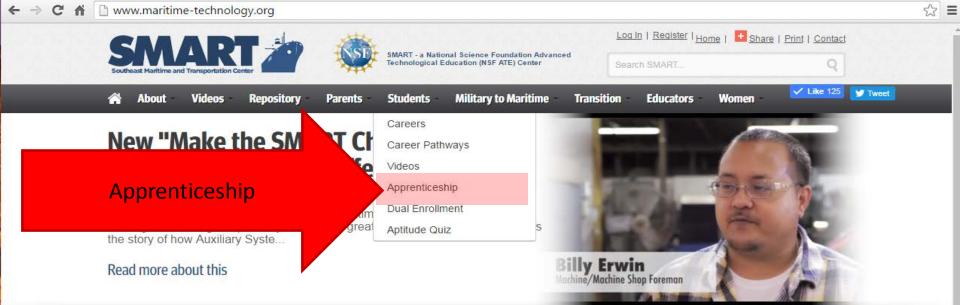
Second Mate

The second mate is responsible for maintaining the bridge

Upcoming Events









MART Center PI, US Department of Labor Office of

Apprenticeship, invited SMART Center P...



Virginia Business Recognizes SMART Center and TCC ...

Virginia Business, a leading publication profiling business-related news in the Commonwealth, has recognized t...



Virginia Maritime Association Releases Economic Im...

The Virginia Maritime Association recently released The Economic Impact of Virginia's Maritime Industry - The ...

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www.maritime-technology.org/students/

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Featured Careers

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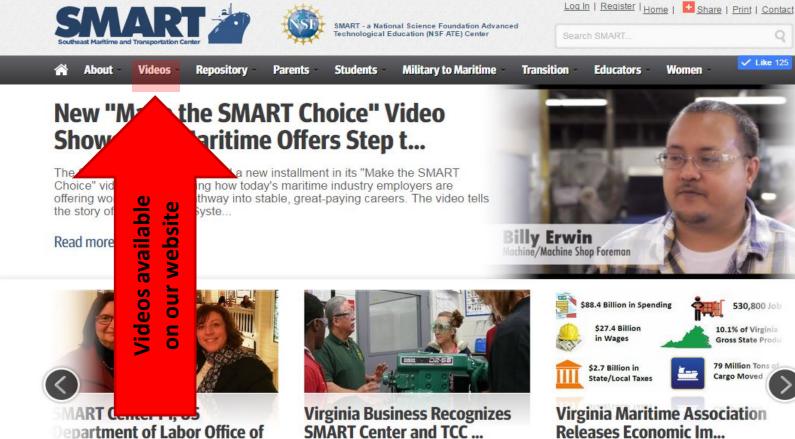
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Upcoming Events 🔊







sura Ginsburg, Team Leader at the U.S.

epartment of Labor's Office of Apprenticeship, invited SMART Center P...

SMART Center and TCC

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Why Smart?

CA

www.maritime-technology.org

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Featured Careers

Ship Pilot

1) 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 avigational and communications equipment as well as

Upcoming Events



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Dead more about SMADT

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💓 Tweet

Make the SMART Choice: Maritime Apprenticeships Lead to B... 🕓 🦽



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!!!



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Registered Apprenticeship Credentials



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Employer Credentials

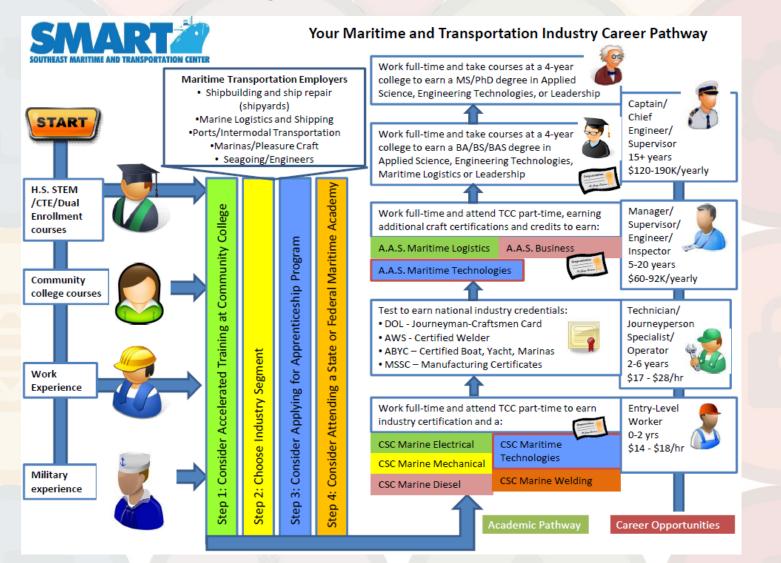
- Nationally Recognized Certificate of Registration
- National Recognition as an ApprenticeshipUSA LEADER

Apprenticeship Credentials

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



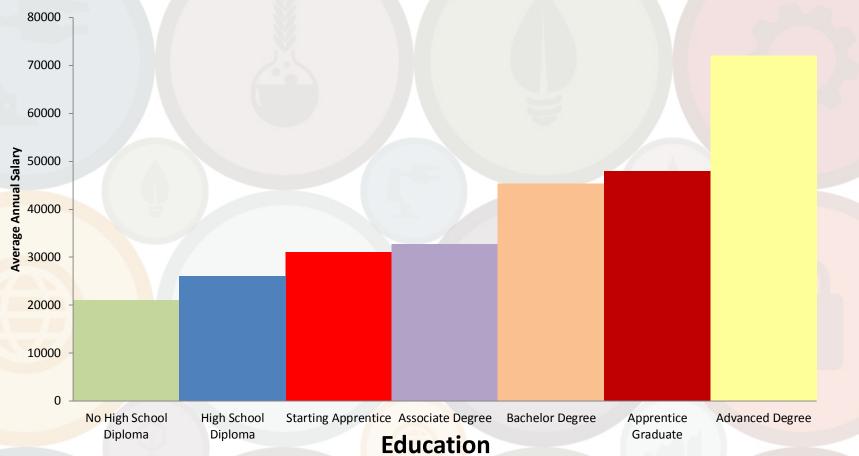
SMART Maritime Career Pathways With Registered Apprenticeship



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



Education vs. Salary ... Registered Apprenticeship

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

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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

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Questions?





The Nuts & Bolts of Work-based Learning Opportunities

- When to place students?
- How to prepare employers as hosts?
- How to organize within your institution?
- How to prepare students for success?
- How do you facilitate good matches?
- What about evaluation?

TECHNICAL ASSISTANCE

Registered

Earn. Learn. Succeed.

PPRENTICESI

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Join Us – All Webinars 3 pm Eastern

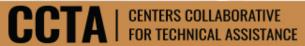
September 15, 2016

Using Social Media to Promote and Achieve Grant Outcomes

Social media is used for informal communication by most and is used by companies for a host of activities including marketing. The session will cover the top tools used for social media and the broad usage by people of all ages. How people's willingness to share openly about themselves through social media, turns social media into a tool for reaching a greater audience to promote a college program and to gather evidence to meet grant outcomes. **Presenters:**

Ann Beheler PI, Executive Director of Emerging Technologies; Gordon Snyder Associate Director of National Center for Optics and Photonics Education (OP-TEC)

For Other Upcoming Webinars See: http://www.atecenters.org/ccta





WEBINAR SURVEY

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