



STEM Workforce Initiative



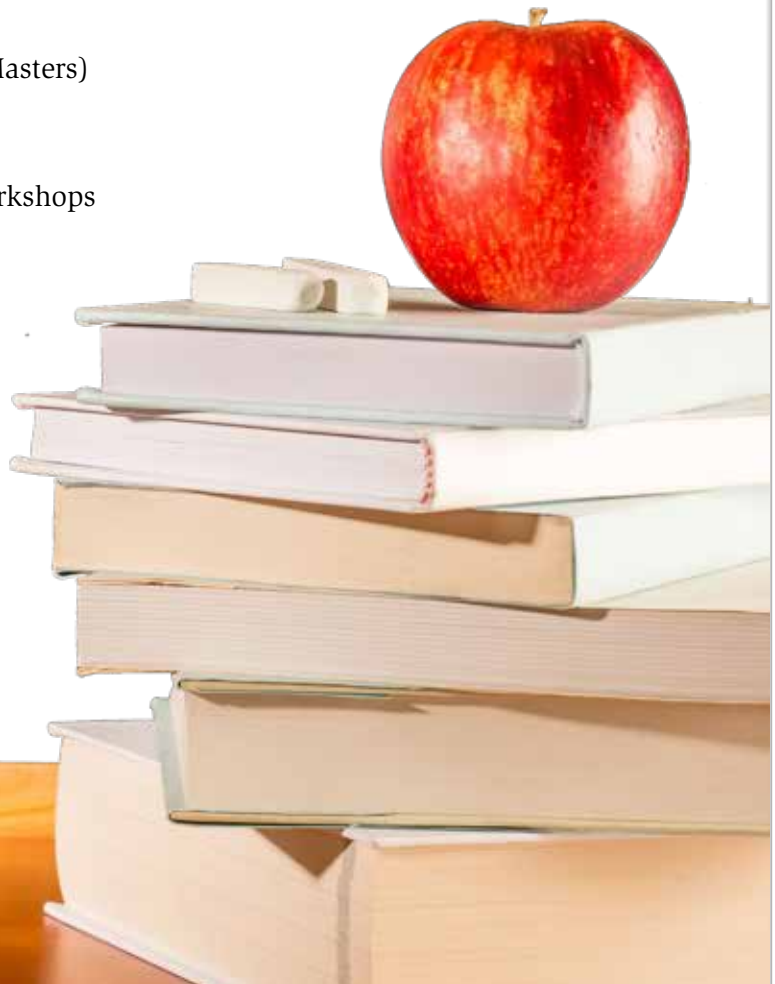
STEM supports and promotes activities encouraging students' interest and pursuit in Science, Technology, Engineering and Mathematics.

STEM Today = Prepared Workforce for Tomorrow

In support of STEM and Workforce Development, I/ITSEC sponsors the following programs:

- Future Leaders Pavilion
- Students at I/ITSEC
- Florida High Tech Corridor Council's stemCONNECT
- Undergraduate Scholarship
- Postgraduate Scholarships (Doctoral/Masters)
- Serious Games Showcase & Challenge
- I/ITSEC Professional Development Workshops
- Central Florida Educators Workshop
- Continuing Education Units
- America's Teachers at I/ITSEC
- UCF/FIEA Games in Simulation Panel
- Golf and 5K Fundraiser

Visit the STEM Pavilion at
Booths 2880-3197



STOP!
SEE THE FUTURE

Future Leaders Pavilion

Booth
2980



Tuesday, 3 December

1200 – 1730

Wednesday, 4 December

0930 – 1730

PRESENTATION SESSION

1600 – 1730

ROOM 320F

Thursday, 5 December

0930 – 1500

AWARDS CEREMONY

1415 • BOOTH 2588

Innovation Showcase

Learning and Leadership are indispensable to each other.

The National Training and Simulation Association and the members of I/ITSEC take great pleasure in welcoming you to the Thirteenth Annual Future Leaders Pavilion and Special Session.

We are delighted to host secondary students from such diverse areas as:

- New Orleans, LA
- Dallas, TX
- Orlando, FL
- Latham, NY
- Philadelphia, PA

The students who participate in the Future Leaders Pavilion (FLP) are committed to excellence and are enrolled in engineering, computer sciences, mathematics, or modeling and simulation tracks. Projects presented this year will continue the legacy of excellence built by previous FLP participants.

Please remember to stop by FLP, located in Booth 2980, during your visits to the exhibit floor.

On Wednesday at 1600 in Room S320F, please lend support to our Future Leaders as they present their projects during their Special Session – “The Future is Now!”

Join us again at 1415 at the Innovation Showcase, Booth 2588 for an award ceremony acknowledging the work of our Future Leaders. *FLP sponsored by: IAI, SAIC, Trideum Corporation, and Wittenstein*



Students at I/ITSEC

Thursday, 5 December • 0900 – 1400

Over the years, thousands of Central Florida high school students have participated in a unique learning experience by visiting the Exhibitors/Exhibits. The purpose of the I/ITSEC Student Tours is to allow students to experience first-hand, real-world training, simulation and education solutions that will help bridge the gap between classroom theory and the applied use of Science, Technology, Engineering and Mathematics (STEM) subjects. Annually, over 600 students, along with 200 school chaperones and volunteer I/ITSEC member escorts, are exposed to special demonstrations and static displays of the training, simulation and education industry. Students are able to learn about the basic building blocks required to deliver high fidelity modeling and simulation products across a broad range of training environments. Participating in the I/ITSEC Student Tours on Thursday, 5 December 2019, will give students a complete understanding of how they can apply the STEM related skills they learn in the classroom to highly successful careers in our industry. For the first time in 2016, through a partnership with NTSA, the Florida High Tech Corridor Council and other “STEM-U-Lators,” we are making it possible to bring I/ITSEC to the classroom through the stem-



CONNECT program. This virtual tour is broadcast live and recorded for use in the classroom at a later time.

To learn more about the I/ITSEC Conference and Student Tours, please contact Bill “Roto” Reuter, I/ITSEC Student Tours Coordinator, at roto@r-squaredsolutions.net or renita.ketchen@technologytap.com.

America's Teachers @ I/ITSEC

I/ITSEC has a long history of supporting the education of students and teachers through visits to the conference. Since the America's Teachers at I/ITSEC program began in 2008, we have hosted teachers from Arizona, California, Florida, Georgia, Maryland, Montana, New York, Ohio, Rhode Island, Tennessee, Texas and Virginia. As part of I/ITSEC's efforts to further education in Science, Technology, Engineering and Mathematics (STEM), teachers and administrators from across the country have been invited to attend the conference. The America's Teachers at I/ITSEC Program consists of an orientation session, attendance at the Modeling and Simulation stemCONNECT,

guided tours of the Exhibit Hall and attendance at tutorials, paper sessions and special events. The teachers will be in sessions and visiting the Exhibit Floor on Monday through Wednesday. Please watch for their red, white and blue ribbons and be ready to engage in conversations about STEM and future workforce initiatives. This program is supported by the National Training and Simulation Association and its industry members.



Educators

Workshop to Introduce Simulation into the Physics Classroom

stemCONNECT

A program of the Florida High Tech Corridor

The Florida High Tech Corridor (The Corridor) is proud to partner with I/ITSEC once again to highlight the 23-county Corridor region's thriving Modeling, Simulation and Training (MS&T) sector.

The evolution of technology has enabled Corridor programs to transform in ways unimaginable more than 20 years ago, specifically stemCONNECT. This program truly does make the connection between academia and private industry by bringing together students and teachers in classrooms with experts in science, technology, engineering and math (STEM) for engaging presentations through video conferencing tools. Indeed, since the first virtual session in 2013, stemCONNECT has already introduced high-tech careers in MS&T and other sectors to nearly 13,000 students and teachers.

The Corridor's stemCONNECT team is excited to host two programs during I/ITSEC – one for educators and one

for students – to showcase MS&T technology and related career opportunities. Educators will join stemCONNECT for guided tours of industry exhibits and presentations from well-known experts in the field, including representatives from the Institute for Simulation and Training at the University of Central Florida, the National Center for Simulation and the Florida Advanced Technological Education Center (FLATE) – an initiative of the University of South Florida, Hillsborough Community College and St. Petersburg College funded by the National Science Foundation. Students will learn about the role of robotics in MS&T by programming a LEGO™ robot and interacting with an NAO™ robot. stemCONNECT will also guide students on a tour of industry exhibits with robotics demonstrations.

For those who cannot attend, stemCONNECT will be live-streaming a tour of the I/ITSEC convention floor.



SERIOUS GAMES

SHOWCASE & CHALLENGE

Great excitement awaits you in Booth #2880 at the 14th annual Serious Games Showcase & Challenge (SGS&C)!

The SGS&C provides a showcase of best-in-class learning games submitted by business, government, and student developers and awards noteworthy games to recognize their achievements. The true uniqueness of the SGS&C is that every I/ITSEC attendee has the chance to play the games, talk with the developers, and cast a vote for the coveted SGS&C People's Choice Award.

The SGS&C brings international award-winning games to you through partnership with Simulation Australasia host of the Australasian Simulation Congress (ASC) SGS&C. These international winners automatically earn spots as finalists in the SGS&C, are eligible for awards, and are featured at I/ITSEC on the exhibit floor.

This year will once again highlight games that employ characteristics or techniques that enhance the game in a new or different way through the competition for the Innovation Award. The innovative technique can be hardware integration, instructional design, game design, content topic, or a combination thereof. Drop by the booth to see these innovative technologies in action!

The seven categories of SGS&C winners are announced at the Awards Ceremony on Thursday, December 5th at 1300 in the Innovation Showcase, Booth 2588: Best Business-Developed Serious Game; Best Government-Developed Serious Game; Best Student-Developed Serious Game; Best XR Serious Game; Innovation Award; Students' Choice Award; and finally, what some might consider the most prestigious award, the People's Choice Award. And remember, the People's Choice Award is based on votes from you! Your I/ITSEC badge includes a special SGS&C ballot that allows you to vote for the winner. Be sure to vote before the deadline on Wednesday, December 4th!

Check out the Serious Games Showcase & Challenge to experience how games can address your serious learning needs.

For more information, contact Jenn McNamara:
jmcnamara@breakawayltd.com

7 Awards!

Students' Choice
Innovation
Business
Student
Government
XR (AR/VR/MR)
People's Choice



[sgschallenge](https://www.facebook.com/sgschallenge)

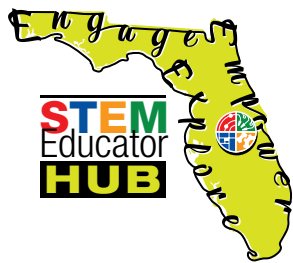


[@sgschallenge](https://twitter.com/sgschallenge)

sgschallenge.com

Booth #2880





www.centralfloridaSTEM.org



STEM Tomorrow's Workforce, Today!

STEM Pavilion: Near the Exhibit Hall Lunch Entrance
Project-based Learning Exhibitors



STEM PAVILION: PROJECT-BASED LEARNING

STEM Pavilion

Keeping the workforce pipeline filled with students pursuing STEM degrees is vital to the modeling, simulation, and training (MS&T) industry. It takes all of us to accomplish that. Each year the STEM Pavilion showcases organizations and programs that are successfully inspiring students and are preparing educators to teach and motivate them to pursue STEM degrees. We invite you to visit the Pavilion to learn more about the organizations and agencies active in the local community and across the country that you can support as a business or parent or community leader. Learn about programs available for students and how you can engage, mentor and help prepare them for future careers. Engage with educators who want to learn from you about the MS&T industry. Find ways to volunteer. Get involved! Your experience is needed.



Visit www.centralfloridaSTEM.org/parents
for more Parent resources



Visit www.centralfloridaSTEM.org/student
for more Student resources

Teacher Workshop

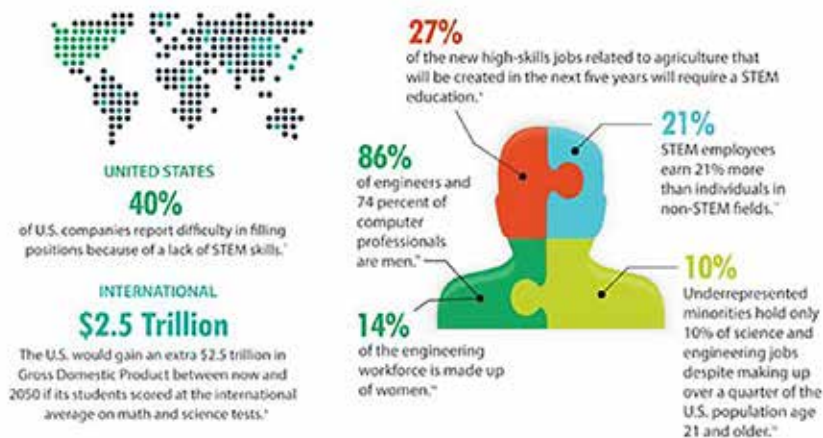
The annual I/ITSEC Teacher Workshop gives teachers a chance to be students and engages teachers in hands-on learning by letting them try new ideas for their classroom. It facilitates dialogue between project-based learning (PBL) and industry professionals, while providing a set of relevant and accessible resources for teachers to use throughout the year. Teachers representing counties throughout Florida participate. This year the educators will be on the exhibit floor with tour guides visiting key local MS&T exhibitors to learn about the industry, STEM skills needed and career opportunities available. If you see one of our teacher tour groups on Wednesday, stop and introduce yourself!



Visit www.centralfloridaSTEM.org/educators
for more Educator resources



The State of America's Workforce



The Central Florida STEM Education Council mission is to collaboratively coordinate and plan STEM education efforts preparing and encouraging pre-college students to enter technical fields of study and to pursue employment in the Central Florida high-tech workforce.

Building a Brighter Future
TODAY!

29th Annual RADM Fred Lewis Postgraduate Scholarship Recipients

In honor of RADM Fred Lewis, the former President of NTSA, these scholarships are offered to stimulate student interest and university participation in preparing individuals for leadership in the Modeling & Simulation, Training and Education communities. By investing in our future workforce, the scholarships encourage expansion of the I/ITSEC community and promote innovation through direct investment in our community's future leaders. The awards are offered at a Masters level in the amount \$5,000, and at a Doctoral level in the amount \$10,000.



Sara Beadle
Clemson University
Human Factors Psychology



Alexandra Kaplan
University of Central Florida
Human Factors & Cognitive Psychology



Julie Kent
University of Central Florida
Modeling & Simulation



Adam Kohl
Iowa State University,
Mechanical Engineering & HCI



Lee Lisle
Virginia Tech
Computer Science



Jack Miller
Iowa State University
Mechanical Engineering



Emily Rickel
Embry-Riddle University
Human Factors



Mark Schiferle
SUNY Buffalo
Mechanical Engineering

New Program

Inaugural Barbara McDaniel Undergraduate Scholarship

NTSA has established the inaugural **Barbara McDaniel Undergraduate Scholarship** program this year to acknowledge the substantial contributions of a long-time I/ITSEC leader. Mrs. McDaniel, the recipient of the I/ITSEC 2017 Lifetime Achievement Award, tirelessly supported all aspects of I/ITSEC since 1993. She began her career as an educator, so these awards will honor her life-long passion in the education of our youth. NTSA understands the importance of students pursuing Modeling & Simulation degrees and how vital it is to the modeling, simulation, and training (MS&T) industry. These new scholarship awards will keep the MS&T workforce pipeline filled, now starting at the Undergraduate level.

In its inaugural year, NTSA awarded \$10,000 to each of three universities:

- **Full Sail University** in Orlando, FL
- **Wright State University** in Dayton, OH
- **Auburn University** in Auburn, AL

3rd Annual Leonard P. Gollobin Postgraduate Scholarship Recipients



Elisa Torres
George Mason University
I/O Psychology



Morgan McCombs
Massachusetts Institute of Technology
Computation for Design and Optimization

Leonard P. Gollobin Graduate Scholarship program was generously bequeathed by Mr. Gollobin to direct students developing their technical talents into the defense industry. Throughout his career, Mr. Gollobin led scientific initiatives that improved our defense systems and strategically shaped our military capabilities. NTSA administers this scholarship with the intent to provide financial support for those seeking advanced degrees and a path to leverage their commitment to strengthen our nation's security.

IMPORTANT DATES FOR 2020

When to Apply Applications must be post-marked by 26 June 2020. (Don't Delay!)

How to Apply See <http://www.iitsec.org/education/students-and-teachers/scholarships> for complete application details.

Award Announcement 7 August 2020

Post Graduate Scholarships

Looking for Future Leaders in the Simulation, Training and Education Community. Learn more about the I/ITSEC community at www.iitsec.org.

Eligibility U.S. Citizens • Full-time Masters or Doctoral students (complete undergraduate work by Spring 2020).

See Study Disciplines at <http://www.iitsec.org/education/students-and-teachers/scholarships>

Award Amounts Available for Fall 2020
\$10,000 (Doctoral Candidates)
\$5,000 (Masters Candidates)
Be our guest at I/ITSEC
November 30 – December 4, 2020

Direct Further Inquiries and Provide Submissions
I/ITSEC Scholarship Program
c/o The National Training and Simulation Association
2101 Wilson Boulevard, Suite 700
Arlington, VA 22201
(703) 247-9480 or dlangelier@ndia.org

Scholarship Chair
Janet Spruill, Aptima, Inc.

Over \$500,000 in scholarship awards distributed to date