

ECOSYSTEM OF LEARNING AT I/ITSEC



Our mission is to establish, nourish, and maintain a solid foundation for launching future leaders and fostering the future workforce — for tomorrow and beyond!

Debuting with I/ITSEC 2021, our EcosySTEM of Learning focuses on strategically building interest and educational momentum through STEM initiatives. Initiatives are designed to build confidence and grow competencies by providing holistic training paths which prepare today's learners for a successful tomorrow.

Our robust program, enabled by NTSA, provides relevant learning opportunities for:

AMERICA'S STUDENTS ■ AMERICA'S TEACHERS ■ AMERICA'S WORKFORCE

OUTREACH THROUGH TOURS

- Guided tours of the I/ITSEC exhibit floor
- Virtual tours

OUTREACH THROUGH PLATFORMS

- Serious Games Showcase & Challenge
- EcosySTEM of Learning Pavilion, including Future Leaders
- Discovery Den (new presentation area in Pavilion!)

OUTREACH THROUGH WORKSHOPS

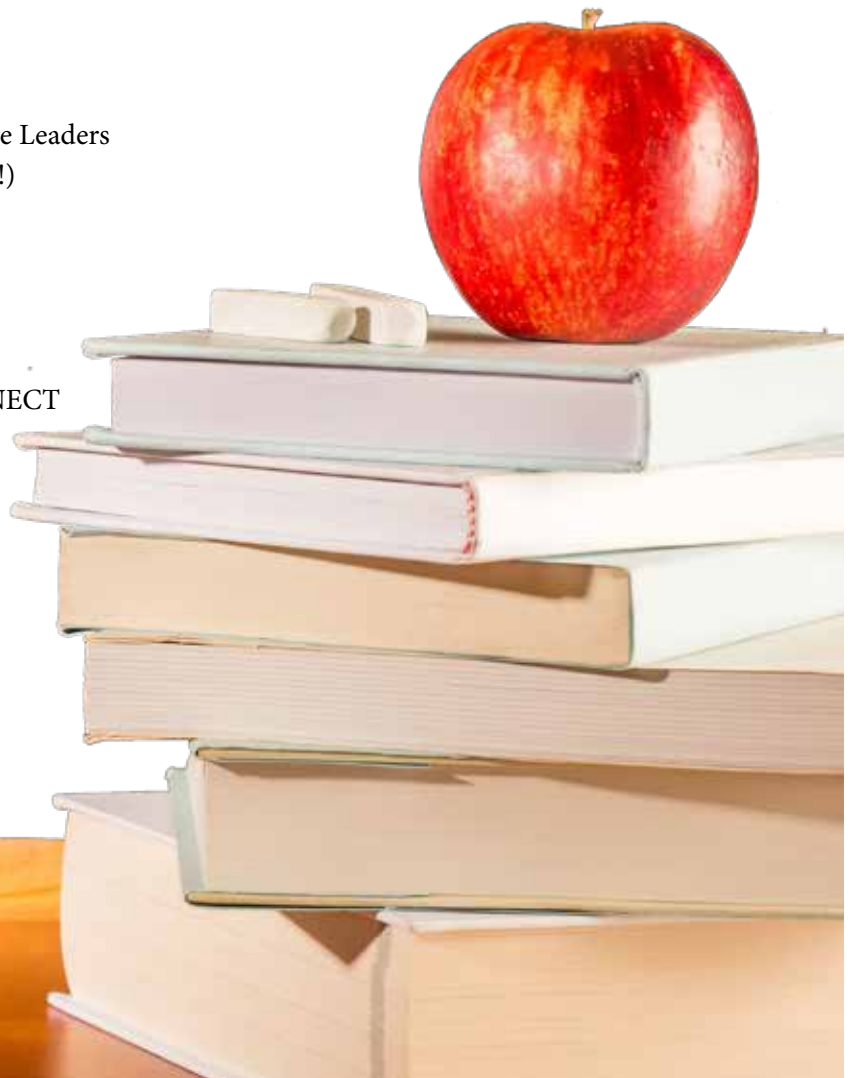
- Teacher focused
- Student focused
- Workforce focused
- Florida High Tech Corridor Council's StemCONNECT

OUTREACH THROUGH CAREER INVESTMENT

- Undergraduate Scholarships
- Postgraduate Scholarships
- Career Fair
- Continuing Education Units

INTERESTED IN SUPPORTING?

- Participate in Golf and the 5K Fundraisers
- Visit the EcosySTEM of Learning Pavillion



BOOTHS 3080 – 3192



ECOSYSTEM OF LEARNING AT I/ITSEC

EcosySTEM OF LEARNING

Launching Future Leader ■ Fostering the Future Workforce

NTSA recognizes the need to maintain a strong workforce to enable the growth and development of the modeling, simulation, and training (MS&T) industry. Doing so requires strong, productive Science, Technology, Engineering and Mathematics (STEM) programs which are impactful to all phases of learning: absorption, nurturing, practicing. Disciplines applicable to current, emerging, and future requirements of MS&T are experienced through observation, interaction, and immersion.

NTSA enables a significant multidimensional STEM program platform which offers many opportunities at I/ITSEC and throughout the year. Initiatives are tailored to support (1) self-motivated learners that prefer independent learning, (2) friendly competitions, and (3) peer collaboration.

The EcosySTEM for Learning provides both physical and virtual platforms for global participation by students, teachers, and industry professionals. Experiences include observation, interaction, and situation immersion which tax the human sensory systems — which then becomes knowledge driven by curiosity and ambition.

At I/ITSEC, the EcosySTEM of Learning demonstrates applications of DoD technology through education initiatives, sample national initiatives highlighting military/community partnerships in education, benchmark outreach programs by companies to support education, undergraduate, graduate, and post graduate opportunities in STEM to support the future workforce. The program continues to adapt and incorporate the latest sciences and technologies into the many initiatives fostered with the ecosystem.



AMERICA'S STUDENTS AT I/ITSEC

Provides a forum for students to share their experiences, participate in discussions with subject matter experts (SME), demonstrate technical projects, learn about highend critical technology, and more!

AMERICA'S TEACHERS AT I/ITSEC

Provides opportunities to engage in interactive discussions and events with peers, the MS&T workforce, and SMEs sharing how to trigger ambitious student minds and build curiosity.

AMERICA'S WORKFORCE AT I/ITSEC

Provides insight for both the current and the next generation workforce so they are better prepared, more confident, and knowledgeable in the latest technology developments in MS&T.



CAREER FAIR LIVE • WEDNESDAY, 1 DECEMBER • 1200-1700 • ROOM 331C
CAREER FAIR VIRTUAL • WEDNESDAY, 1 DECEMBER
[HTTPS://APP.CAREERFAIRPLUS.COM/LOGIN](https://app.careerfairplus.com/login)

NTSA Career Fair at I/ITSEC

COORDINATOR

JEFFREY A. RAVER

Business Development Director,
Naval Business Unit, SAIC

Linking top talent with leading companies in the training, modeling and simulation community is what the I/ITSEC Career Days are all about. Firms across our industry are struggling to identify resources and fill positions while at the same time early career and transitioning veterans are looking for opportunities where they can make a real difference for the warfighter. During this event, a total of up to 30 companies will be available in person and online to interview candidate, answer questions, and fill jobs. Candidates will also have the opportunity to participate in workshops on topics such as resume writing, interviewing skills, and the state of the modeling and simulation industry. All candidates, both virtual and live, will have the opportunity to engage with all recruiters, both onsite and virtual. Recruiting organizations will be added to the website as they are confirmed. We look forward to seeing you.

CAREER FAIR LIVE Wednesday, 1 December • 1200 – 1700 • Room 331C

CAREER FAIR VIRTUAL Wednesday, 1 December • <https://app.careerfairplus.com/login>

Participating Organizations will be added as they are confirmed, please visit the I/ITSEC website for the most up to date information.





SERIOUS GAMES

SHOWCASE & CHALLENGE

The Serious Games Showcase and Challenge (SGS&C) invites you to Booth 2880 to play this year's finalist games, immerse yourself in exciting PC, XR, and mobile learning experiences, meet the developers, and cast your vote for the People's Choice Award.

Visit the SGS&C to learn how games can address your serious learning needs and experience the games first hand!

Founded in 2006, the SGS&C aims to bring awareness of the impact that games have on learning, and to provide quality exemplars. Within a casual and interactive setting, the SGS&C provides a showcase of best-in-class learning games submitted by businesses, students, and government organizations while offering the developers recognition of their achievements as finalists and award winners.

Play the games and cast your vote for the People's Choice Award by 1800 Wednesday, December 1st.

The People's Choice Award is based on votes from attendees like you. Your I/ITSEC badge includes your ballot. Be sure to visit the booth to play the games and vote!

Hear the SGS&C awards announced live on Thursday, December 2nd.

Join us at 1300 in the Innovation Showcase (Booth 2588) for the Awards Ceremony.

- Best Business-developed Serious Game
- Best Government-developed Serious Game
- Best Student-developed Serious Game
- Best XR Serious Game
- Innovation Award
- People's Choice Award

**Check out the
Finalist Games
BOOTH 2880**

**2021 Serious Games
Showcase & Challenge**

For more information:


Jenn McNamara

jmcnamara@breakawaygames.com or
sgschallenge@gmail.com

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

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

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

 [serious-games-show-
case-challenge](https://www.linkedin.com/company/serious-games-showcase-challenge)



I/ITSEC STEM SCHEDULE

VIRTUAL EVENTS

MONDAY, 29 NOVEMBER

- 0900 – 1000** Introduction to Modeling, Simulation, and Training
Intended Audience: Middle & High School Classes
- 1300 – 1400** Aerospace & Aviation Modeling, Simulation, and Training
Intended Audience: Middle & High School Classes

TUESDAY, 30 NOVEMBER

- 0900 – 1000** Virtual Floor Tour with Captain Bill “Roto” Reuter
Intended Audience: Middle & High School Classes
- 1100 – 1200** Get Ready to Model! How to Succeed in a Modeling Contest
Intended Audience: Middle & High School Students & Educators
- 1300 – 1400** Introduction to Modeling, Simulation, and Training
Intended Audience: Middle & High School Classes
- 1600 – 1700** Introduction to Modeling: Let’s Get Started
Intended Audience: Educators

WEDNESDAY, 1 DECEMBER

- 0830 – 0930** Video Game Tech in Modeling, Simulation, and Training
Intended Audience: Middle & High School Classes
- 0930 – 1030** America’s Students M&S, STEM Presentations
Intended Audience: Students & Educators
- 1200 – 1300** Internship Panel
Intended Audience: High School Students & Educators
- 1300 – 1430** Virtual Health Interactivity Operation Outbreak
Intended Audience: Students & Educators
- 1300 – 1340** Career Fair – Resume Writing Skills
Intended Audience: High School Students, Educators & those interested in joining the industry
- 1400 – 1440** Career Fair – Interviewing Skills
Intended Audience: High School Students, Educators & those interested in joining the industry
- 1500 – 1540** Career Fair – Equity in the Work Environment
Intended Audience: High School Students, Educators & those interested in joining the industry
- 1600 – 1640** Career Fair – Understanding I/ITSEC
Intended Audience: High School Students, Educators & those interested in joining the industry
- 1600 – 1700** Integrating Modeling into Your Classroom and Curricula
Intended Audience: Educators
- 1700 – 1800** Math Modeling Resources: Ready to Download and Use in Your Classroom
Intended Audience: Educators

THURSDAY, 2 DECEMBER

- 1300 – 1400** Jumping into a Modeling & Simulation Project – America’s Student Panel
Intended Audience: Students & Educators
- 1600 – 1600** Building Functions as Models for COVID-19 Pooled Testing
Intended Audience: Educators

IN-PERSON EVENTS

MONDAY, 29 NOVEMBER

ROOM 311

- 0900 – 1800** NAWCTSD Presents Math with Robots Level 1
Intended Audience: Middle & High School Educators

TUESDAY, 30 NOVEMBER

ROOM 311

- 0900 – 1800** NAWCTSD Presents Math with Robots Level 1
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WEDNESDAY, 1 DECEMBER

ROOM 312

- 0900 – 1800** NAWCTSD Presents Math with Robots Level 1
Intended Audience: Middle & High School Educators
- 0930 – 1030** America’s Students M&S, STEM Presentations
Intended Audience: Students & Educators
- 1200 – 1300** Internship Panel
Intended Audience: High School Students & Educators
- 1300 – 1340** Career Fair – Resume Writing Skills
Intended Audience: High School Students, Educators & those interested in joining the industry
- 1400 – 1440** Career Fair – Interviewing Skills
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Intended Audience: High School Students, Educators & those interested in joining the industry
- 1600 – 1640** Career Fair – Understanding I/ITSEC
Intended Audience: High School Students, Educators & those interested in joining the industry

THURSDAY, 2 DECEMBER

ROOMS 311 & 312

Student Tours Meeting

*Session descriptions can be found on the mobile app.





UNIVERSITY COHORT EVENT AT I/ITSEC

WEDNESDAY, 1 DECEMBER 2021 • OCCC-NTSA MEETING ROOM 210C

University Cohort Event at I/ITSEC

AN OPPORTUNITY TO JOIN OTHER ACADEMICS/RESEARCHERS, DIALOG & DISCUSSION

The University Cohort Event at I/ITSEC, initiated several years ago, is intended to bring university faculty together at the conference to explore opportunities, share research interests, and learn more about ways to get involved in I/ITSEC as they interact with the government and industry communities in attendance. This year's event will host several topics to encourage dialog among researchers and provide opportunities for young faculty to present their research at the conference and publish their papers following the conference in juried research journals known to the modeling and simulation community.

1300 – 1310 WELCOME AND INTRODUCTIONS

RADM James A. Robb, USN (Ret.), President, NTSA & **Dr. Linda Brent**, Strategic Planning, NTSA

1310 – 1510 PANEL DISCUSSION – INVITED SPEAKERS

This panel includes invited faculty for presentation, followed by publication in a special edition of a major journal supporting the modeling and simulation community. The purpose of this event is to support young faculty in presenting at the I/ITSEC Conference and finding value in participation towards tenure.

Dr. R. Bowen Loftin, President Emeritus, Texas A&M University, Moderator

Ivan Conde

Assistant Professor, Department of Computer Science, University of Arkansas at Little Rock

Jacob Hauenstein

Department of Computer Science, University of Alabama in Huntsville

Johnathan Mell

Assistant Professor, Department of Computer Science, University of Central Florida

Srijan Kumar

Assistant Professor, School of Computational Science and Engineering, Georgia Institute of Technology

Seyedahmad Rahimi

Assistant Professor of Educational Technology, School of Teaching and Learning, University of Florida

1510 – 1530 BREAK

1530 – 1545 CERTIFIED MODELING AND SIMULATION PROGRAM (CMSP)

Dr. Ivar Oswald, Senior M&S Associate, The MIL Corporation; Chair, CMSP Committee

1545 – 1645 PANEL DISCUSSION: RESEARCH OPPORTUNITIES FOR UNIVERSITY AND GOVERNMENT AGENCY COLLABORATION

Panel to discuss opportunities across the Government for collaboration with universities and opportunities for research grants and other support.

Carolann Dykes Logue

Co-Director, University of Central Florida's Innovation Districts, Moderator

Dr. Glenn Gunzelmann

Principal Research Psychologist, Air Force Research Laboratory

Dr. Melissa Malwanis

Deputy Director, Research & Technology Programs, NAWCTSD

Leslie Faircloth

Deputy Director, NAWCTSD Office of Small Business Programs

Mike Cannizzaro

STE S&T Advisor, U.S. Army

1645 – 1700 NATIONAL SECURITY INNOVATION NETWORK (NSIN) PROGRAM

Beverly Seay, Board of Trustees, University of Central Florida

1700 – 1705 CLOSING AND FUTURE PLANS

1705 – 1815 CLOSING RECEPTION – ROOM 210D

VISIT IITSEC.ORG FOR THE MOST UP TO DATE INFORMATION.

This event has been organized by a committee led by Dr. Bowen Loftin, President Emeritus of Texas A&M University. NTSA appreciates his leadership and that of the committee.

R. BOWEN LOFTIN

(Committee Chair)

President Emeritus

Texas A&M University

STEPHEN GOLDBERG

(Committee Liaison)

Independent Consultant

Chief, Technology Based

Training Research Unit (retired)

U.S. Army Research Institute

for the Behavioral and Social

Sciences

CAROLINA CRUZ-NEIRA

Agere Chair Professor

Department of Computer

Science

University of Central Florida

CHRIS DEDE

Timothy E. Wirth Professor in

Learning Technologies

Technology, Innovation and

Education Program

Graduate School of Education

Harvard University

RICHARD FUJIMOTO

Regents' Professor Emeritus

School of Computational Science

and Engineering

Georgia Institute of Technology

DANIELLE McNAMARA

Professor of Psychology

Arizona State University

MIKEL PETTY

Associate Professor of Computer

Science

University of Alabama in

Huntsville

31ST 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.



Nicholas Armendariz
University of Central Florida
Modeling, Simulation & Training



Kendall Carmody
Florida Institute of Technology
Aviation Human Factors



Alex Renner
Iowa State University
Mechanical Engineering & HCI



Grace Waldfogle
University of Central Florida
Human Factors & Psychology



Edwin Michael Bearss, CMSP
The University of Alabama in Huntsville
Modeling & Simulation



Elaine Choy
Embry-Riddle Aeronautical University
Human Factors



Hannah Solini
Clemson University
Applied Psychology



Tiffany Bisbey
Rice University
I/O Psychology



Tyree Cowell
Carnegie Mellon University
Education Technology and Applied Learning Science



Joshua Stewart
Virginia Tech
Power Electronics

BARBARA MCDANIEL UNDERGRADUATE SCHOLARSHIP

NTSA continues the **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 third year, NTSA awarded \$10,000 to each of three universities:

- **The DAVE School**, Orlando, Florida
- **George Mason University**, Fairfax, Virginia
- **Old Dominion University (ODU)**, Norfolk, Virginia

5TH ANNUAL LEONARD P. GOLLOBIN POSTGRADUATE SCHOLARSHIP RECIPIENTS



Daryn Dever
University of Central Florida
Modeling & Simulation



Megan Wiedbusch
University of Central Florida
Education in Learning Sciences

The **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 2022

When to Apply Applications must be postmarked by 24 June 2022. (Don't Delay!)

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

Award Announcement 5 August 2022

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

Award Amounts Available for Fall 2022
\$10,000 (Doctoral Candidates)
\$5,000 (Masters Candidates)
Be our guest at I/ITSEC 28 Nov – 2 Dec 2022

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) 247-9490 or rdespot@NTSA.org

Scholarship Chair
Janet Spruill, Aptima, Inc.

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 2022).

