



FLORIDA STATE UNIVERSITY
LEARNING SYSTEMS INSTITUTE

FSU

INSPIRE

INSTITUTE FOR STRATEGIC PARTNERSHIPS, INNOVATION, RESEARCH, & EDUCATION

Carrie Meyers
Triumph Gulf Coast Board Meeting
August 2025



WORKFORCE DEVELOPMENT

ENHANCE WORKFORCE TALENT

Led by LSI, InSPIRE is focused on cultivating and training a skilled, diverse workforce essential for sustaining a vibrant **aerospace and advanced manufacturing** ecosystem in Northwest Florida.



Each program is developed in **collaboration with industry partners** from concept through implementation.

Courses are geared to promote and **apply AI skills** among schools and learners.



2024-2025 Connections

✓ Reached 8 Partner Counties

Hosted by Escambia, Okaloosa, Bay, Gulf Co Schools

All 8 counties were invited to attend

~200 Educators

✓ Conducted 8 Professional Learning Courses

- AISEC101 Engaging Secondary Students Using AI-Powered Instruction (2)
- AIELEM101 Engaging Elementary Students Using AI-Powered Storytelling (4)
- ROBO101 Introduction to Robotics in the Classroom (2)
- AIENG102 Leveraging AI in Engineering
 - Jan 2025- Online AI Course Engineering Pedagogy

✓ InSPIREd Schools & Community Involvement

Rising Leaders Academy

Return Facilitators that embody the InSPIREd spirit

Industry, Economic, & Higher Ed Partners



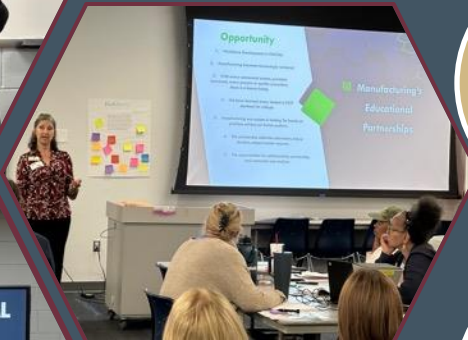
Our Approach — InSPIRE Professional Learning Courses



- **Rooted in Research-based Best Practices for STEM Pedagogy & Professional Learning**
 - Modernizing teacher professional development
 - Industry Certifications + Competency based implications for the classroom
 - InSPIREd Schools
- **Pathways with multiple courses**
 - Designed to address educational and economic goals
 - Build on teacher successes & build foundation
- **Focus areas**
 - STEM, AI & Literacy
 - Integration across subjects with standards alignment
 - Industry certifications to showcase teacher skills
- **Embedded workforce development**
 - Integrated throughout the educational journey
 - Durable/soft skills pedagogy
 - Field experiences
 - Guest Experts

FSU
INSPIRE

K-20+ Workforce Pipeline



Aerospace
Experts

Engineering
Experts

Microsoft

Economic
Development
Leaders

Robotics
Expert
Partner

Software
Design
Partner

Joint
Curriculum

Tech & State
College
Leaders

Community
Awareness

K-20 Pathways

Leveraging
Industry

Field
Experiences

Manufacturing
Leaders

FSU

INSPIRE

Engaging Students Using AI-Powered Instruction



FSU
INSPIRE

Aerospace
Guest
Experts

Prompt
Engineering

Literacy
Connections

Microsoft
PowerPoint
Industry
Certification

Fundamentals of
AI

Data &
Probability

Leveraging
AI

NLP & LLM
Probability
Models

Critical
Thinking

Ready to
implement
Curriculum

Machine Learning
Training
Activities

Aerospace
Technology

Text
generation
for student
e-readers

CPALMS AI
Lesson Planning
Tool

Successes:



CRESTVIEW
NEWSBulletin
SERVING NORTH OKALOOSA COUNTY

"Empowering our teachers to embrace innovation is essential to preparing students for the careers of tomorrow," OCSO Superintendent Marcus Chambers said.
"Through the FSU InSPIRE program, our educators are gaining new strategies and technologies to spark curiosity and creativity in their classrooms."



"It was five days of kinda **intense learning** and figuring out how do **we take this back into the classroom** and make it age-appropriate. I've created poems using our science vocabulary."



"One of the things that they stressed to us was that we need to **teach children how to be critical consumers of artificial intelligence**. We can't just take it at face value."

Robotics
Guest
Experts

Engineering
Design
Process

Literacy
Connections

Manits, FSU
and
Sciberus
Joint
Industry
Certification

Use of AI to
problem solve

Pre-
engineering

Critical
Thinking

Ready to
implement
Curriculum

Durable/Soft
Skills

Preparing
more students
to enter
competitions

Advanced
Manufacturing

Coding

Hands-on
Experiments

Leveraging
Robotics

Introduction to Robotics



FSU
INSPIRE

Successes:

"I thoroughly enjoyed my week with InSPIRE! I had **previously tried some robotics** with my students, but **through the program I gained a much deeper understanding** of how robotics works."

I'm **helping spark a movement**, by **empowering educators** to bring curiosity, AI, and real-world engineering into the classrooms ...we're **bridging the gap between learning and careers** in vital industries.

"This training made it easy to see how our **youngest students can dive into topics like robotics and simple machines**. While teaching these concepts we can **build on durable skills...**"

"Learning **pre-engineering skills** through robotics and using Generative AI gave me the opportunity **to grow beyond expectations** and **anticipate my students' needs...**"



FSU
INSPIRE



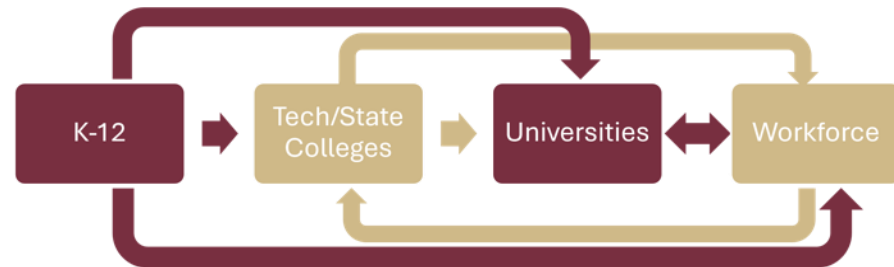
Making an Impact with InSPIRE





InSPIRE as a Gateway to Workforce Development

- Planning our Next Courses
 - online and in-person
- Supporting K-20+ Pathway with our Partners
- Military Family Opportunities
- Supporting InSPIREd Schools
- Community STEM Events
 - Pensacola Air Show in November
 - Santa Rosa STEAM Night October 21st
 - October Advanced Manufacturing Month Events





FLORIDA STATE UNIVERSITY
LEARNING SYSTEMS INSTITUTE

FSU

InSPIRE

INSTITUTE FOR STRATEGIC PARTNERSHIPS, INNOVATION, RESEARCH, & EDUCATION

Thank you, Triumph Gulf Coast,
for your continual support!!

Questions?