



# ADVISORY COUNCIL

September 13, 2017 | 10 a.m.

# Welcome & Introductions

- Senator Sharon Hewitt
- Dr. Joseph C. Rallo



# Roll Call

- Vernon Dunn



**LaSTEM ADVISORY COUNCIL MEETING**  
Thomas Jefferson Room 1-136  
September 13, 2017 • 10:00 a.m.

## **AGENDA**

- I. Welcome & Introductions- Commissioner Rallo & Senator Hewitt
- II. Roll Call
- III. Oaths of Office
- IV. Review of ACT 392
- V. Environmental Scan of Existing or Emerging STEM Initiatives
- VI. Establish Quarterly and Annual Goals
- VII. Establishment of Subcommittees/Workgroups
- VIII. Open Discussion
- IX. LaSTEM Fund to Include Corporate, State and Federal Grant/Financial Support  
Programs
- X. Other Business
- XI. Adjourn



# Oaths of Office

- ❑ Dr. Uma Subramanian



# Act 392

## OBJECTIVES

Coordinate and oversee the creation, delivery, and promotion of STEM education programs;



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Increase the number of women who graduate from a postsecondary institution with a STEM degree or credential;





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Ensure the alignment of education, economic development, industry, and workforce needs;

Increase the number of women who graduate from a postsecondary institution with a STEM degree or credential; and

Establish a competitive grants program to fund robotics competitions



# Existing or Emerging STEM Initiatives - Pockets



# STEM Events

**COMMUNITY STEM FEST**  
 with the New Orleans Pelicans and Saints

**Ochsner Sports Performance Center**  
 5800 Airline Drive • Metairie, LA 70003

Saturday, September 30<sup>th</sup>  
 10:00 AM—2:00 PM




**STEM NOLA PRESENTS**

ALL K-12 STUDENTS WELCOME

**SCIENCE** **TECHNOLOGY** **ENGINEERING** **MATH**

**SATURDAYS** SATURDAY FEB 8TH  
 LYONS CENTER 9 AM - 12 NOON

THEME: RENEWABLE ENERGY  
 COST: \$60

With *Dr. Calvin Mackie*

PRE-REGISTER AT  
**WWW.STEMNOLA.COM**

GROWING FUTURE INNOVATORS, CREATORS, AND MAKERS FOR THE 21ST CENTURY

**STEM NOLA**  
 SCIENCE • TECHNOLOGY • ENGINEERING • MATH

POWERED BY Entergy





## The National WWII Museum STEM Events

**Real World Science:** Weeklong summer seminar for middle school math and science teachers that explores key STEM concepts using real-world WWII examples.





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**STEM Field Trips:** Hands-on exploration and design challenges for science and math students.



# STEM Ecosystems

FOUNDATION *for*  
EAST BATON ROUGE SCHOOL SYSTEM

BR STEM Network



NICERC<sup>TM</sup>  
AN ACADEMIC DIVISION OF THE  
CYBER INNOVATION CENTER



## Louisiana STEM Ecosystems

A STEM learning ecosystem encompasses schools, community settings such as after-school and summer programs, science centers and museums, and informal experiences at home and in a variety of environments that together constitute a rich array of learning opportunities for young people.



# K-12 Pathways



## K-12 Pathways

Science, Technology, Engineering and Math (STEM) Pathway

Information Technology Pathway

Internet Web Foundations Pathway

Web Design Pathway

Digital Media Pathway

Cyber Engineering Pathway

Pre-Engineering Pathway

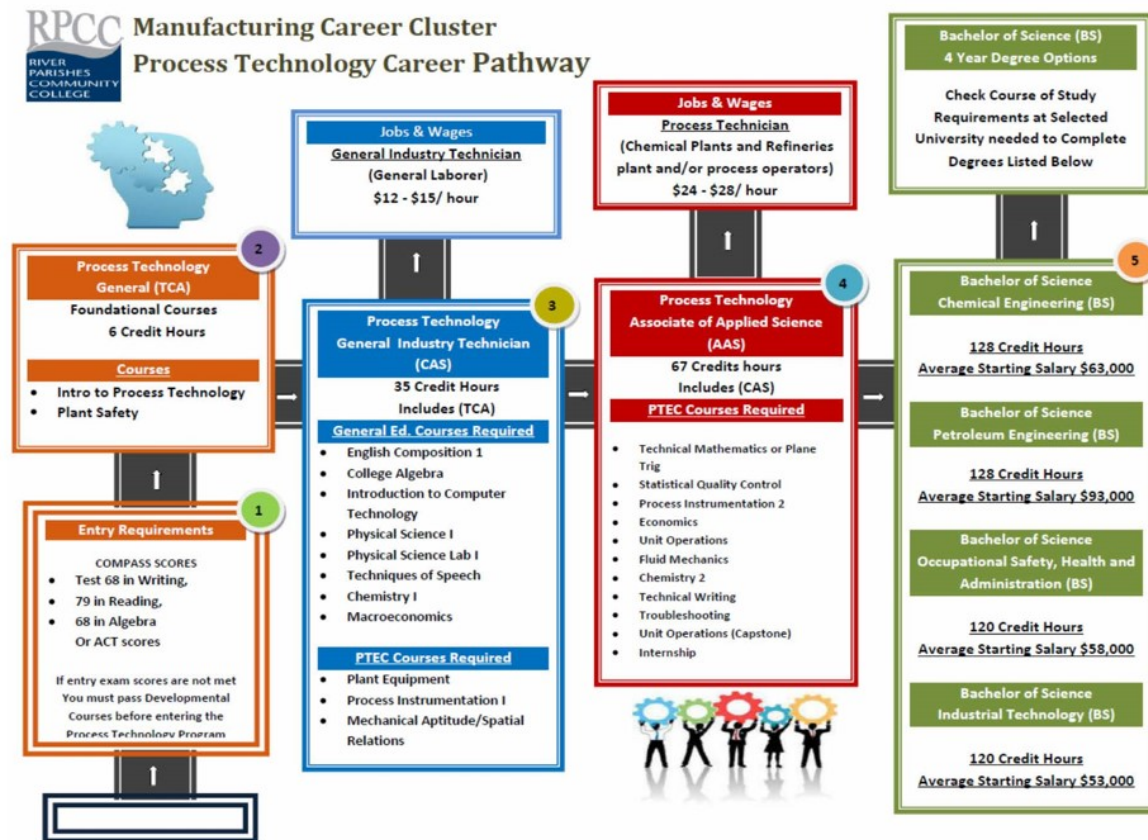
Revised Science Standards, Curriculum, and Assessments





# STEM Pathway

## Science, Technology, Engineering, and Math (STEM) Pathway



The next few slides have lots of words....**stay with me.**



# K-12 Stars (A Few)

## 5 K-12 Stars

**Kenilworth Science & Technology School - #1 Best Public High School for STEM in Louisiana- Niche 2017 (Baton Rouge, LA)**

**Patrick F. Taylor Science & Technology Academy - #1 Best Public High School for STEM in Louisiana- Niche 2017 (Avondale, LA)**

**Louisiana School for Math, Science, and the Arts (Natchitoches, LA)**

**David Thibodeaux STEM Magnet Academy (Lafayette, LA)**

**University Lab School: Students participated in 59<sup>th</sup> Annual London international Youth Science Forum, Middle School STEM Club, School STEM Lab, Robotics Teams, Girls Who Code, AP Computer Programming, School Science Fair**



# High School Recruiting - Public

## High School STEM Recruiting

LSU System: XCITE: Xploration Camp Inspiring Tomorrow's **Engineers**

- REHAMS: Recruiting into Engineering High-Ability Multicultural Students
- Year Zero (a President's Future Leaders in **Research** Program)
- Coast & Environment (Ocean Commotion)
- IMRAM: Initiative for **minority** recruiting and mentoring in **Mathematics**



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UL System: LEAP: Louisiana's **Engineering** Advancement Programs (UNO)

- **STEAM** Discovery (Science Technology Engineering Arts Math)- Young scholars summer camp (ULM, LSUS)
- Summer Enhancement Camp-Reading and **Math** (SLU)
- President's Academy - **Computer Science**, Health Science, **Physical Science**, etc.
- Pre-Freshman Academy -Entering freshman to increase **mathematical** literacy (GSU)



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SU System: The Timbuktu Academy - Critical thinking, **math**, etc. (SUBR)

- **Robotics** and Sensors Summer Camp (SUBR)
- College Summer STEM Program (**Math** & **Science** enrichment) (SUBR)
- (ESI): **Engineering** Summer Institute (SUBR)
- Transportation & Energy Institute - **Math**, **Science**, Robotics (SUBR)



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LCTCS: **STEM** Camp (BRCC)



# High School Recruiting - Private

## High School STEM Recruiting

Dillard: Pre-Freshman **Engineering** - 7<sup>th</sup> thru 10<sup>th</sup>, scientific demonstrations, experiments, **mathematical** reasoning, **computer science**, **Science** & **engineering** fairs.

- YSEC: Young Scholars Environmental Camp- 1<sup>st</sup> thru 8<sup>th</sup> Grade





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Tulane: The Perry Initiative - Building the pipeline for **WOMEN** in **engineering** and **medicine**.

- AiCHE: American Institute of Chemical Engineers Outreach Program
- Tulane Science Scholars Program
- GIST: **Girls** in **STEM** at Tulane (grades 5-7)
- BATS: Boys at Tulane in **STEM** (grades 5-7)



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XULA: LEAP: Louisiana **Engineering** Advancement Scholars Program (9<sup>th</sup>-11<sup>th</sup> Grade)

- SOAR: Stress on Analytical Reasoning- rising seniors interested in **science careers**
- Summer Science Academy STAR Programs- **STEM** Institute for middle-high schoolers interested in science careers
- **BioStar**, **ChemStar**, **MATHStar**, CoE, FMSTA, LEAP, Superscholar Excel



# Undergraduate & Graduate Degrees in STEM

## Federally Funded Programs

**HHMI:** Howard Hughes Medical Institute - LSU



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**Bridge to Baccalaureate (NIH):** **Biomedical and Behavioral Science BRCC** Majors can transition to LSU to complete degree



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**MARC (Maximizing Access to Research Careers) & RISE (Research Initiative for Scientific Enhancement)** - for pursuit of PhD in **biomedical** careers (XULA)

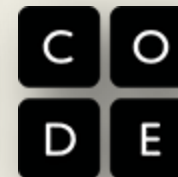


# STEM Teacher Training

LSU College Readiness Program: 8 Day summer workshop for teachers to become certified in **math** course (Algebra, Geometry, AP Calculus)



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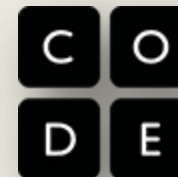
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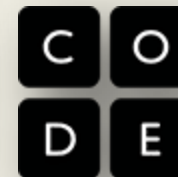
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Core Element's **Summer STEM Institute** sponsored by Schlumberger offers teachers an opportunity to learn techniques and processes that are the key ingredients to improve and motivate **STEM** learning in a classroom environment.



# National Initiatives



girls who code

Want to work at a tech company?  
**GET YOUR START WITH A GIRLS WHO CODE CLUB!**

Girls Who Code Clubs are **FREE** programs for 6th to 12th grade girls to explore coding in a fun and friendly way!




girl scouts

**How Girl Scout STEM Programs Benefit Girls**

*A Compilation of Findings from the Girl Scout Research Institute*



**CHEMICAL EDUCATIONAL FOUNDATION®**



**What's FIRST?**  
 Igniting young minds.  
 Nurturing creativity.  
 Inspiring innovation.

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 Join or start a team in your area.  
 Sponsor a team, event, or local FIRST program.  
 Become a team member or coach.  
 Volunteer to blow 100 miles.

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**More Than Robots™**  
 FIRST participation is proven to encourage students to pursue education and careers in STEM-related fields, inspire them to become leaders and innovators, and enhance their 21st century work-life skills.  
[www.firstinspires.org/aboutus/impact](http://www.firstinspires.org/aboutus/impact)

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[www.firstinspires.org](http://www.firstinspires.org)

**FIRST**  
 FOR INSPIRATION & RECOGNITION OF SCIENCE & TECHNOLOGY



**GREAT Minds in STEM**



# National Initiatives



# Benchmarks

**GREATNESS'  
STEMS  
FROM IOWANS**

**GOVERNOR'S STEM ADVISORY COUNCIL**

*dedicated to building a strong STEM education foundation for all Iowans*



State of Nevada

**Governor's Office of Science,  
Innovation and Technology**



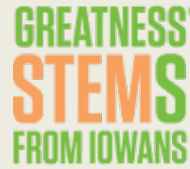
**Tulsa Regional  
STEM Alliance**

**CHILDREN NOW**  
California STEM Network



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# Benchmarks



GOVERNOR'S STEM ADVISORY COUNCIL

dedicated to building a strong STEM education foundation for all Iowans

## Current Active Working Groups

Broadband for Iowa
Community College STEM Network
Four-Year College STEM Network
Iowa STEM Conference Planning
STEM Active Learning Community Partners
STEM BEST Selection and Guidance
STEM Business Engagement
STEM Communications
STEM Engagement of School Counselors
STEM Equity
STEM Scale-Up Planning
STEM Seal of Approval
STEM Support of Ag. Science
STEM Supports of Arts and Science
STEM Supports of Computer Science
STEM Volunteer Service
STEM Youth Advisory Board
STEM Program Evaluation

## Current Programs

Microsoft IT Academy
STEM Scale-Up Program
Teacher Externships
Iowa STEM Conference Planning
Code Iowa
STEM Endorsement
STEM Redesigned Learning Environments (RLE)
STEM Festivals
STEM Business Engaging Students and Teachers (BEST)
STEM Program Evaluation Network



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# Quarterly & Annual Goals

## GOALS

1-3 Months: Environmental Scan



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1-3 Months: Environmental Scan

4-6 Months: Develop Goals

***First Report to Senate and House Committees on Education***  
***Due January 13, 2018***



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## GOALS

1-3 Months: Environmental Scan

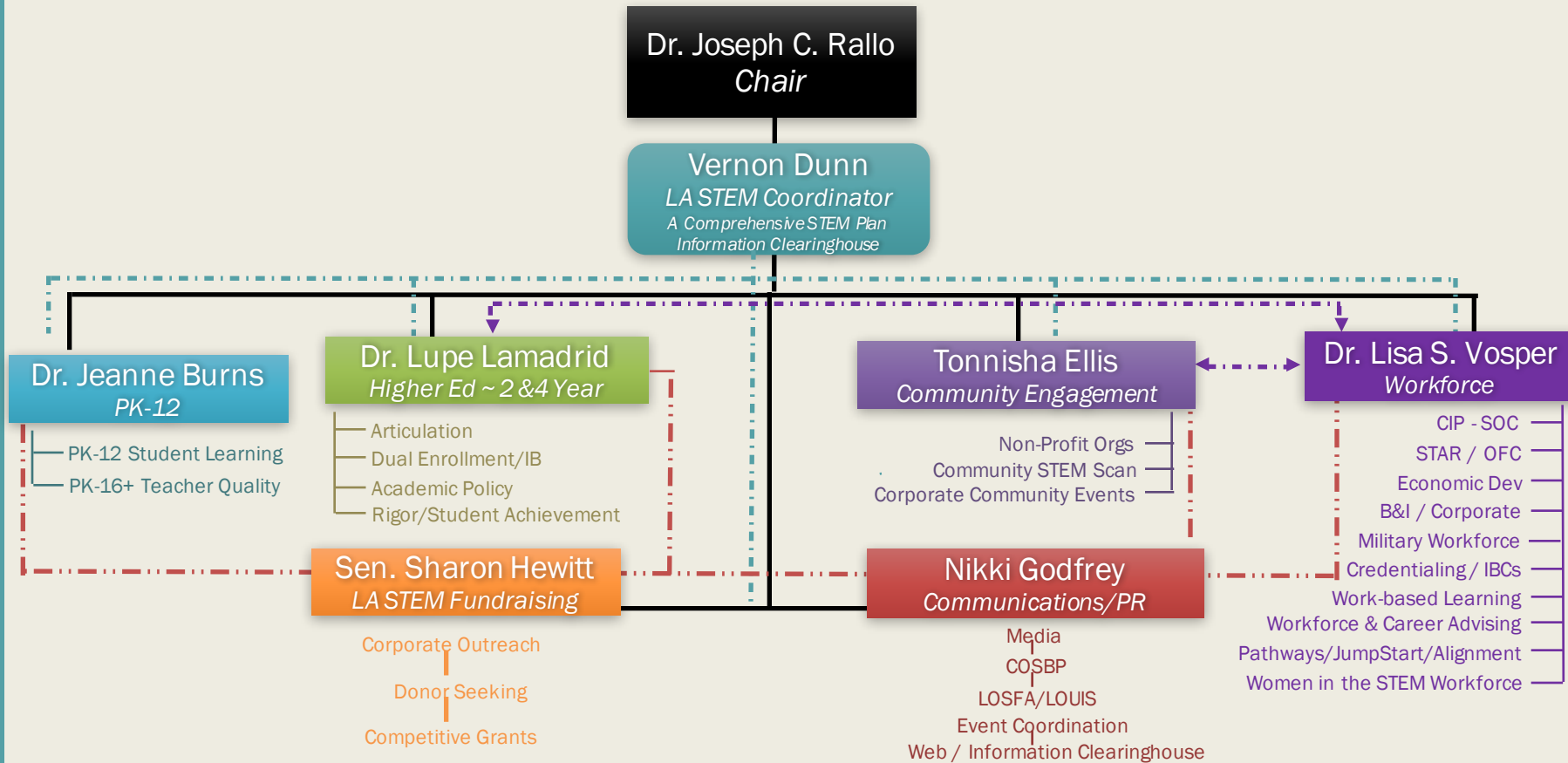
4-6 Months: Develop Goals

***First Report to Senate and House Committees on Education***  
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6-12 Months: As funding allows, start implementing programs



# LA STEM Subcommittees & Workgroups



# PK-12 STUDENT LEARNING

Dr. Jeanne Burns  
PK-12

## Common Themes in Research

Teachers play a critical role in students' STEM career choices.

Employing a hands-on approach sparks enthusiasm for students selecting a STEM career.

- PK-12 Student Learning
- PK-16+ Teacher Quality

### BESE Student Content Standards

- Science Standards (2017)
- Mathematics Standards (2016)
- English Language Arts Standards (2016)

### STEM Initiatives Scan

- PK-8, High School, College Students
- PK-12 Preservice Teachers
- PK-12 In-service Teachers, & Parents



STEM Resources Critical for Student Success



# PK-16+ TEACHER QUALITY

Dr. Jeanne Burns  
PK-12

## Louisiana STEM Areas for Initial Teacher Certification

Biology, Chemistry, Computer Science, Earth Science, Environmental Science, General Science, Mathematics, Physics, and Technology Education

Are new areas of teacher certification needed in cyber skills, robotics, engineering, etc.?

- PK-12 Student Learning
- PK-16+ Teacher Quality

### Pathways to Teacher Certification

- Undergraduate (Initial)
- Alternate: Practitioner Teacher Program, Certification-Only Program, and Master of Arts in Teaching (for individuals with non-education baccalaureate degrees) (Initial)
- Add-on (Certified Teachers)

### New Starting July 1, 2018 Full Year Residencies & Mentor Teachers

Potential for teachers & teacher candidates to learn new hands-on approaches together



**STEM Resources Critical for Teacher  
& Teacher Candidate Success**



# Higher Education - 2 Year & 4 Year

Dr. Lupe Lamadrid  
*Higher Ed ~ 2 & 4  
Year*

## Current Research

Lack of fit into major, the environment (gender stereo typing signals), & perception of major & grades, (National Bureau of Economic Research, August 2017).

Computer Science, Biophysics & Physics tend to be male-dominated (Kugler, 2017)

Neurobiology, Environmental Science & Biology of Global Health tend to be female dominated (Kugler, 2017)

— Articulation

— Dual Enrollment/IB

— Academic Policy

— Rigor/Student Achievement

## Current Pathways

Dual Enrollment & 2+2 Agreements

Programming

## Challenges

Rigor of foundational courses

Need for clarity of student advising at both secondary and post-secondary levels

Funding for initiatives and resources

## Opportunities

Informing students/parents on the importance of foundational background in Math & Science

Identifying specific pathways and discovery of opportunities

Informing and advising students about necessary skill set for success in STEM

Collaboration between secondary and post-secondary institutions on workshops/summer programs



# Higher Education - 2 Year & 4 Year

Dr. Lupe Lamadrid  
Higher Ed ~ 2 & 4  
Year

## Short Term

Targeted communication sent to HS students currently enrolled in STEM courses via DE/AP or CLEP & their parents regarding importance of strong foundational skills in STEM courses

Messaging to those populations should inform both students & parents of importance of STEM & provide listing of opportunities for discovery

Targeted communication to current students enrolled in STEM fields at 2/4 yr. institutions regarding benefits and opportunities

Develop strategies to reach out to military students who are coming back to school after service and potentially have a skill set that would be congruent with STEM majors

— Articulation

— Dual Enrollment/IB

— Academic Policy

— Rigor/Student Achievement

## Long Term

Policy - Establish policies to increase rigor of foundational courses critical to future success in STEM majors, this could establish a pipeline of students beginning in high school

Legislation

Incentives/Scholarships for students who major in STEM fields either in Education or Practical fields, particularly women and minority students

Build more opportunities for post-secondary collaboration by incentivizing creation of 2+2 pathways





# Community Engagement

Tonnisha Ellis  
*Community  
Engagement*

Non-Profit Orgs

Community STEM Scan

Corporate Community Events

## Asset - Map

Catalog current and on-going events

Community STEM initiatives

- Schools
- Corporations
- Non-profit
  - Organizations
  - Churches, others

## Identify

Regions with limited STEM initiatives

Populations being served



# Community Engagement

Tonnisha Ellis  
*Community  
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Non-Profit Orgs

Community STEM Scan

Corporate Community Events

## Analyze

Barriers that limit STEM participation

Opportunities to grow STEM participation and increase STEM footprint in the State

## Collaborate

Workforce on overlapping business and industry initiatives

Public Affairs on community events and marketing



# Workforce Subcommittee

Dr. Lisa S. Vosper

Workforce

## Louisiana Workforce

Workforce projections indicate that approximately **67,000 new and replacement jobs** will need to be filled each year as the State's economy continues to develop.

Of the jobs in LA's Occupational Forecast, **40%** are STEM or STEM-related jobs.

Of the jobs that have a 4 or 5 STAR jobs rating, **58%** are STEM/STEM-related jobs.

CIP - SOC

STAR / OFC

Economic Dev

B&I / Corporate

Military Workforce

Credentialing / IBCs

Work-based Learning

Workforce & Career Advising

Pathways/JumpStart/Alignment

Women in the STEM Workforce



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## Louisiana Workforce

According to recently released ACT Data, **only 10%** of high school graduates are STEM-ready and jury is still out on the STEM-readiness percentage of all college graduates.

On the surface, there appears to be a **significant STEM-workforce readiness gap**.

The Workforce Subcommittee will investigate this gap and explore strategies to minimize it.



# Communications & Public Relations

Nikki Godfrey  
*Communications/PR*

LaSTEM Communication Efforts
Brand Development
Media Coordination
Event Management
Calendar of Statewide Events

Media  
|  
COSBP  
|  
LOSFA / LOUIS  
|  
Event Coordination  
|  
Web / Information Clearinghouse



# Open Discussion

*You've heard our preliminary ideas; let's talk about it!*

## Have we forgotten anything?



# LaSTEM Fund

Grants

Corporate



# LaSTEM Fund

Grants
Corporate
State





# LaSTEM Fund

Grants
Corporate
State
Federal



# Other Business

## LaSTEM Website

- ❑ [www.regents.la.gov/page/lastem](http://www.regents.la.gov/page/lastem)
- ❑ Please email all website inquiries to [bor.publicaffairs@regents.la.gov](mailto:bor.publicaffairs@regents.la.gov)



# Other Business

## List of Meetings



### UPCOMING MEETING DATES

- Wednesday, October 18, 2017
- Tuesday, November 28, 2017
- Wednesday, December 13, 2017
- Wednesday, January 10, 2018
- Wednesday, Feb. 7, 2018
- Tuesday, March 13, 2018
- Thursday, April 12, 2018
- Wednesday, May 16, 2018
- Tuesday, June 12, 2018
- Wednesday, July 18, 2018
- Wednesday, August 15, 2018

*Thomas Jefferson A and B are reserved for LaSTEM/Advisory Council Meeting Dates*



# Other Business

## Next Steps

Sign up for Subcommittees/Workgroups

Success Stories

*Please pass on suggestions by the next meeting.*



Educate

# EVOLVE

Innovate

*Louisiana*

