1st Quarter LASTEM Advisory Council Meeting

Career and Technical Education Center

2/22/2024

Today's Agenda

I. Welcome and Roll Call
- Martha Sealy, Executive Director, CTEC
- Introduction of New Council Members
- Annual LASTEM Legislative Report

II. Approval of 4th Quarter Meeting Minutes

III. Update from Capital Area STEM Center
- Summer Dann, Region 2 Director
- Ignite! LDOE collaboration

IV. LASTEM Summit Review

V. Ochsner Clinical School
- Sue Barrosse, Enrollment Manager

VI. Louisiana Afterschool Network
- Andrew Ganucheau, Director
- LASTEM Toolkit collaboration
- Louisiana Million Girl Moonshot Flight Crew

VII. Adjournment

Lunch Provided by Capital Area STEM Center

- Followed by tour of CTEC and offsite tours

Welcome From Host

Martha Sealy
Executive Director
CTEC

Welcome New Members!

Name	Organization
Emily DiPalma	LA Workforce Commission
Rick Gallot	University of Louisiana System
Paul Helton	LA Economic Development
Camille Ivy-O'Donnell Bentin	LA Association of Business and Industry
Dr. Wendi Palermo	LA Community and Technical College System
David St. Etienne	Workforce Investment Council

Agenda Items

I. Roll Call

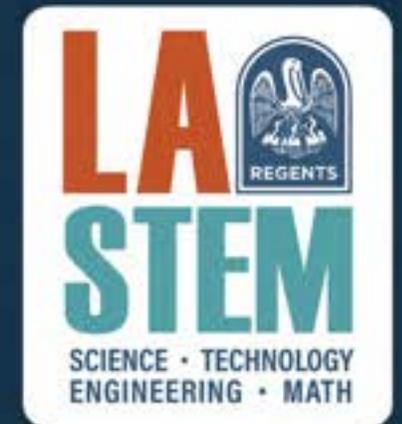2024 Legislative Annual Report
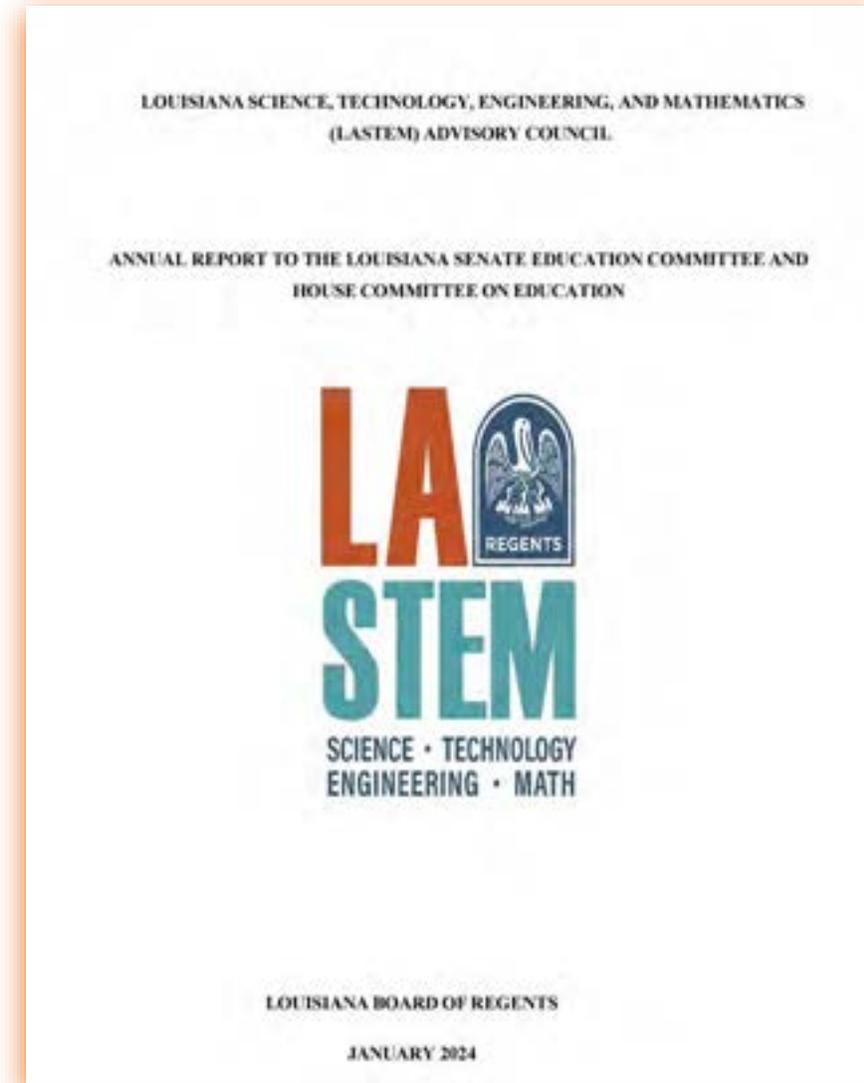
II. Approval of 4th Quarter minutes

III. Update from Capital Area STEM Center

CASN Advisory Committee

- Dr. Frank Neubrander, Chair, LSU Cain Center for STEM Literacy

- Erin Blake, River Parishes Community College

- Haggai Davis, II, General Informatics

- Tonnisha Ellis, Baton Rouge Area Chamber

- Kim Fossey, Retired, Million Women Mentors Louisiana

- Dr. Dixie Gautreaux, Franciscan University

- Dr. Christopher Guillory, Southern University

- Cate Heroman, Knock, Knock Children's Museum

- Dustin Lafont, Front Yard Bikes

- Stephen Loy, Louisiana Technology Park

- Jamie Mixon, Louisiana Department of Education

- Mary Sealy, EBR Career and Technical Education Center (CTEC)

- Ann Trappey, Forte and Tablada Engineering

- Brandy Tyson-Polk, Baton Rouge Community College

- Marcus Williams, Williams Architecture

CASN Vision and Mission

THE CENTER WILL SERVE AS A HUB TO PROMOTE AND SUPPORT STEM RESOURCES INCLUDING ACTIVITIES, PROFESSIONAL DEVELOPMENT & EDUCATION FROM EARLY CHILDHOOD TO EMPLOYMENT. SPECIFIC FOCUS AREAS INCLUDE:

CREATING OPPORTUNITIES FOR BUSINESS, INDUSTRY, AND COMMUNITY PARTNERS TO ENGAGE IN PK-16 CAREER-BUILDING PROGRAMS
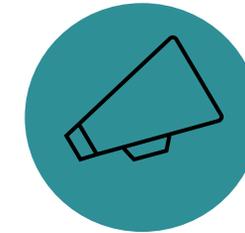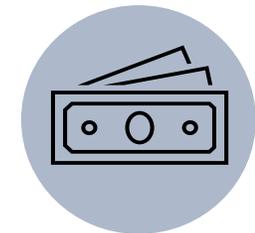
DEVELOPING STATEWIDE NETWORK OF STEM RESOURCES, COMMUNICATIONS

STRENGTHENING OPPORTUNITIES AND SUPPORT FOR EDUCATORS

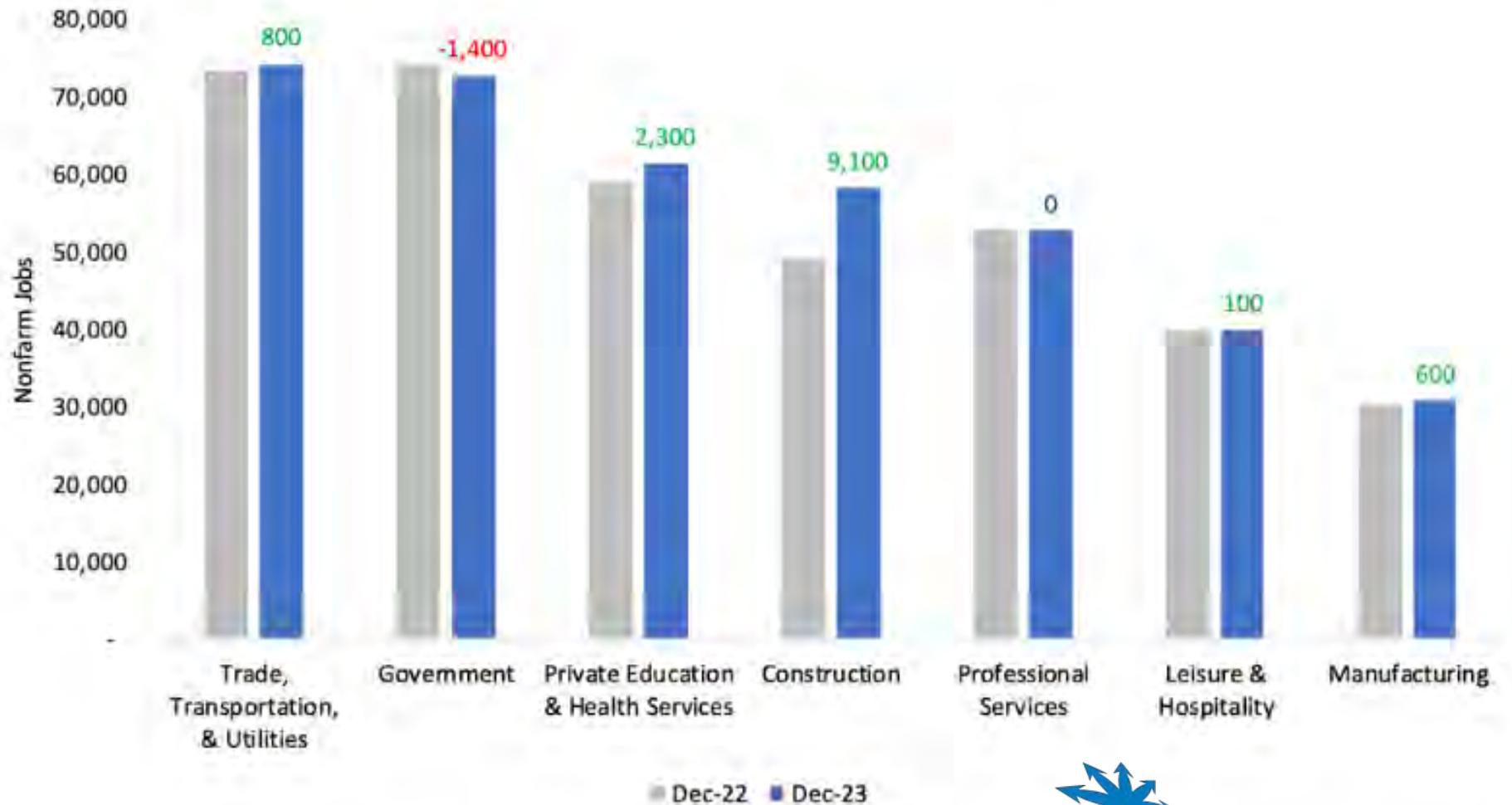PROMOTING BROAD FAMILY AND COMMUNITY SUPPORT FOR STEM EDUCATION

LEAD COLLABORATIVE EFFORTS TO IDENTIFY & LEVERAGE FUNDING

Regional STEM Occupational Data

Major Industries in the Capital Region

(numbers show annual jobs change)

Professional Development for Teachers

In summary 2023- hosted summer workshops for elementary, middle, and high school teachers in Baton Rouge, LA (Region 2) and Ruston, LA (Region 8).

The "STEM" problem is in computer science

67% of all new jobs in STEM are in computing

11% of STEM bachelor's degrees are in Computer Science
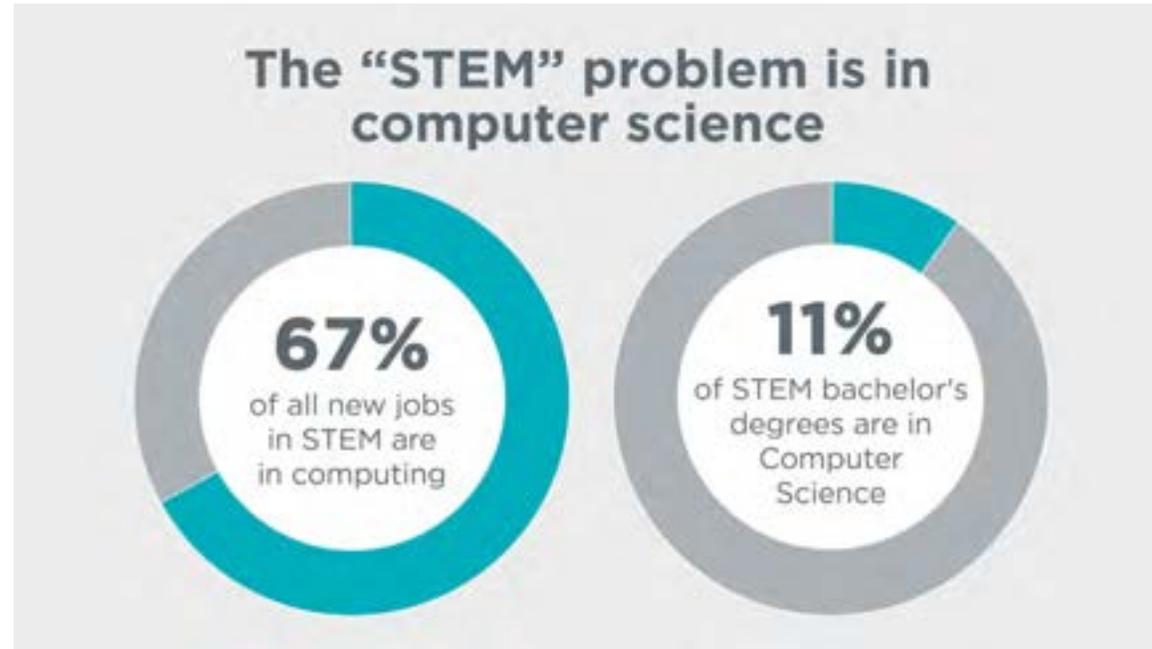
"This is an opportunity we definitely need, an infusion for not only our region, but more so for the state," emphasized one of the ambassadors.
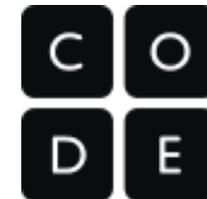
IGNITE! Professional Development for K-5 Teachers

- $1.75 Million Contract with LDOE
- 40 hours of CS fundamental professional development for K-5 teachers
- Train the trainer model

Ambassador training started with kickoff days December 2, January 3 & January 6
- New Orleans (Region 1),
- LSU & Dutchtown High School (Region 2),
- SLCC (Region 4),
- The Region 5 STEM Center,
- LA Tech University, (Region 8).

Training concludes with Celebration Days:
- Sciport,(Region 7)
- LASM(Region 2)
- CGI (Region 4)
- GNO STEM (Region 1)

IGNITE! Professional Development for K-5 Teachers

- 125 Teacher Ambassadors
- 700+ Teachers across the state

■ 15+ ambassadors

■ 2-14 ambassadors

■ 1 ambassador

125 Ambassadors
31 Parishes

Support of STEM Pathway Courses
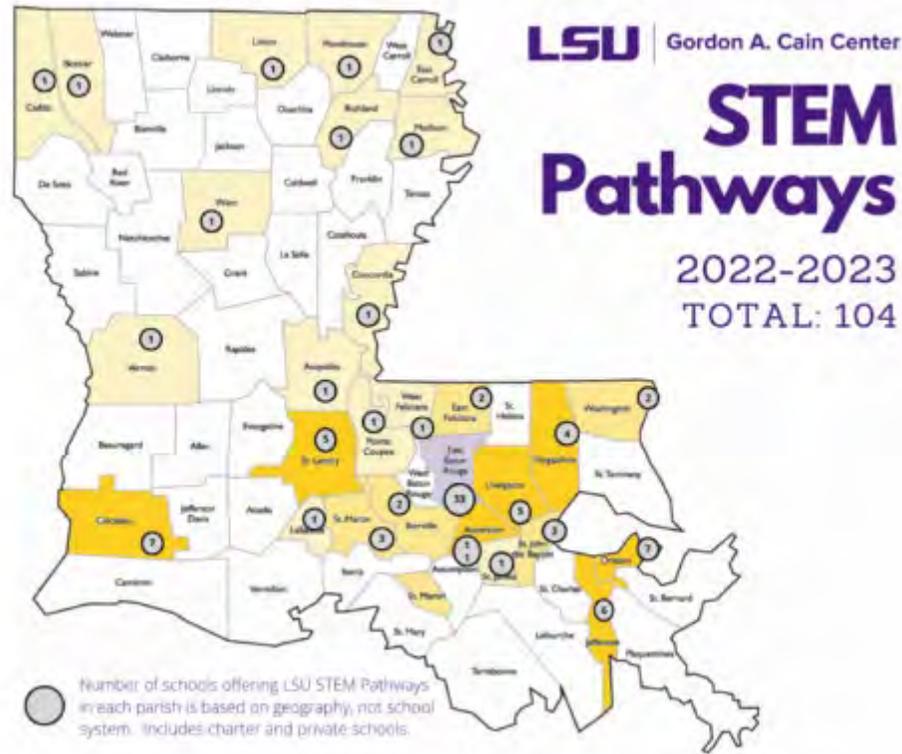
Students completing pathways are not just prepared for post-secondary degrees, but also for careers.

CASN hired a bilingual STEM professional to ensure materials were accessible to Spanish-speaking students and teachers.

WAY2WORK

OPEN TO ALL MAJORS

Special Topics in Computer Science

CSC 2700

PROGRAMMING IN PYTHON

Looking for job skills?
Do you want to learn a programming language &
have the opportunity to earn a certification?

Learn the Basics of Python and have the
opportunity to take the PCEP™ Python
Certification Exam.

Sign up for CSC 2700
T Th noon to 1:20pm
In room 1221 PATRICK TAYLOR

DXC TECHNOLOGY

WAY2WORK

"(I am hoping to gain) industry certification in Python in order to better job applications."

Student in Python class

- Pilot Python certification CS course for undergraduates

- Leveraging the special topics in computer science course, CSC 2700

- Available to students from all majors on campus

- Course has an enrollment of **30 students**

- Offered T/ Th with lab

- Students will have the opportunity to take the PCEP™ – Certified Entry-Level Python Programmer for free

DXC TECHNOLOGY

SPARK Your Summer 2

Preparations are underway for Summer 2024 – July Sessions
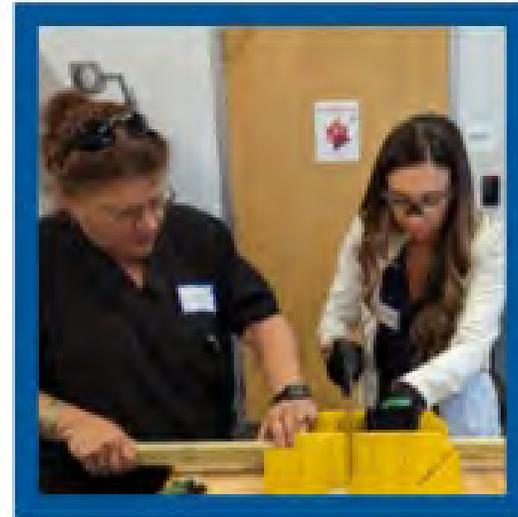
"I felt so confident after last week's electrical course I installed a ceiling fan in my home!" said another participant.

Million Women Mentors

First row: Elizabeth Beckham, Turner Industries, Baraynia Robillard, Exxonmobil, Jessica Stegall, Danos, Alison Bordelon, LCTCS. Second row: Summer Dann, CASN, Darylene Harris, Shell, Renee Phillips, Napa Autoparts, Sarah Haneline, BASF

Advocacy, Awareness & Outreach
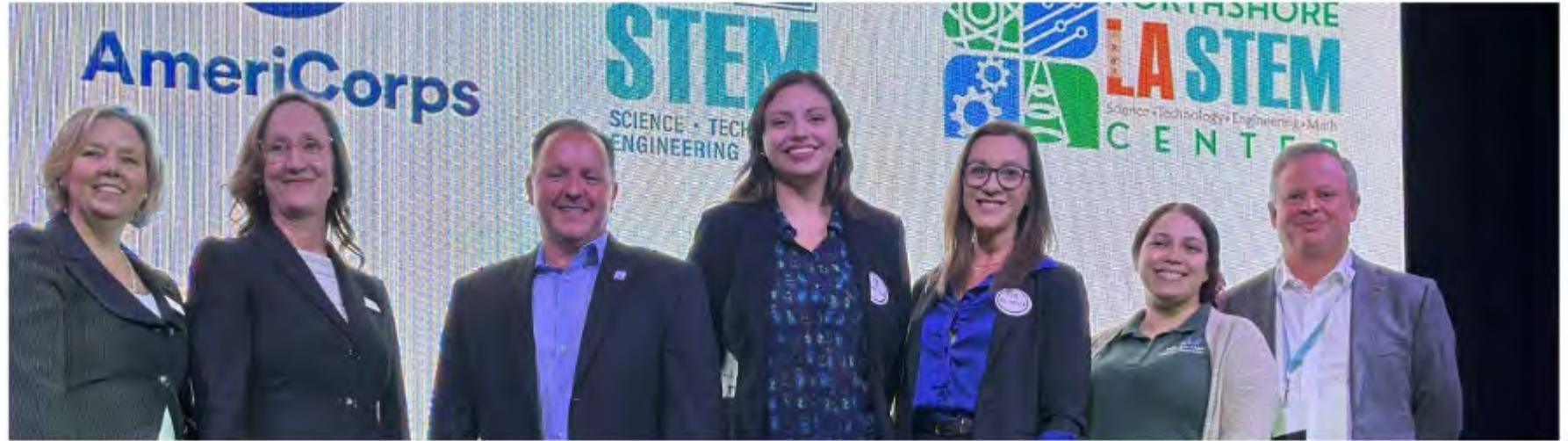
AmeriCorp VISTAs speak on a panel at the LASTEM Summit

CONNECT WITH US!

Follow us or sign up for our newsletter for the latest updates, resources and stories showcasing the impact of STEM in our community!
#CASN #STEMeducation #Innovation

IV. LASTEM Summit Update
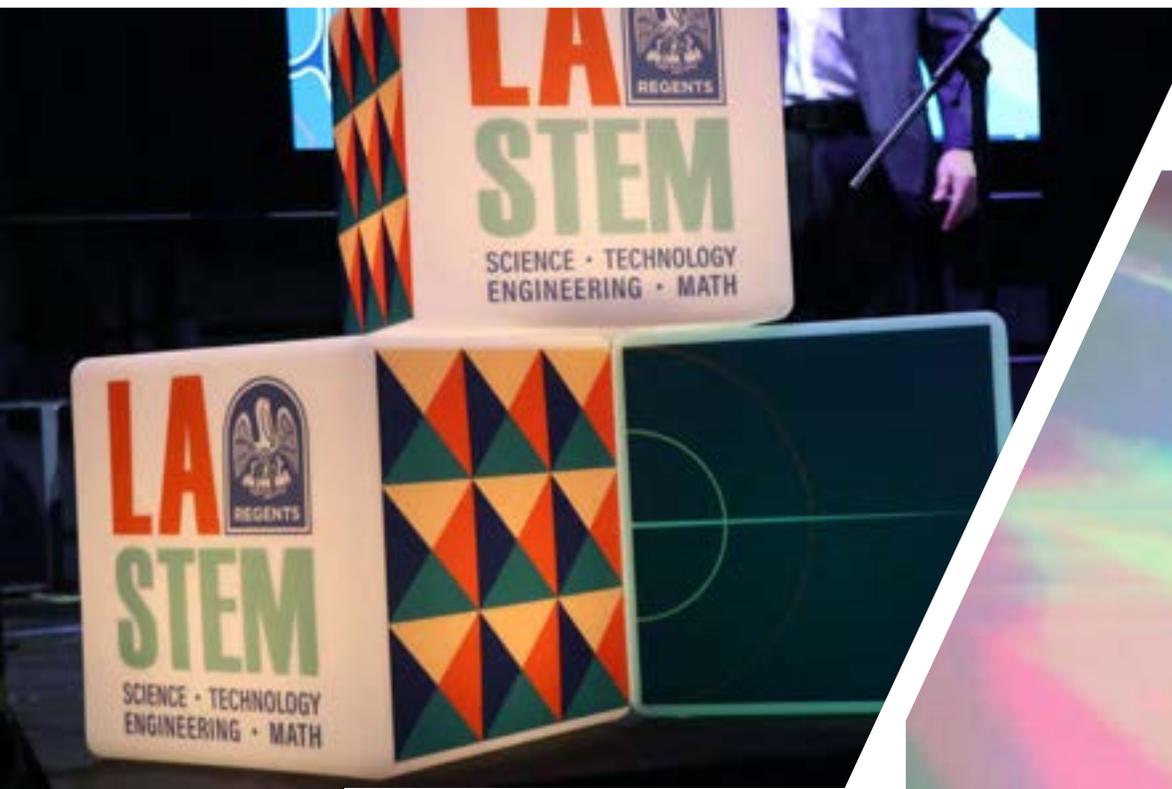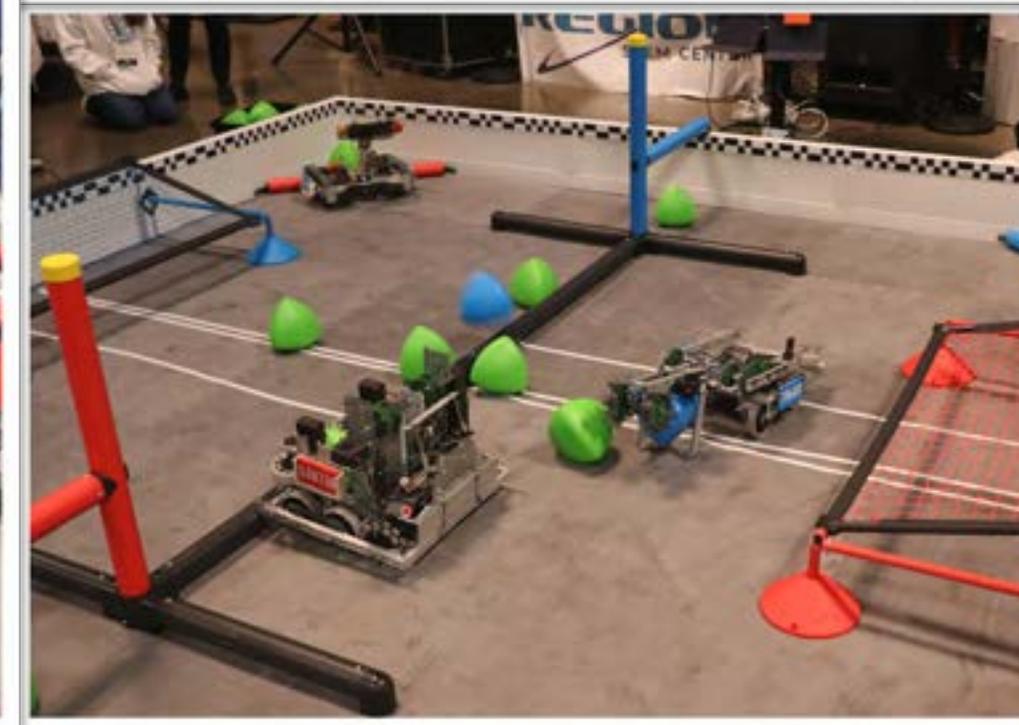
V. Ochsner Clinical School
Sue Barrosse

Welcome, LASTEM Advisory Council!
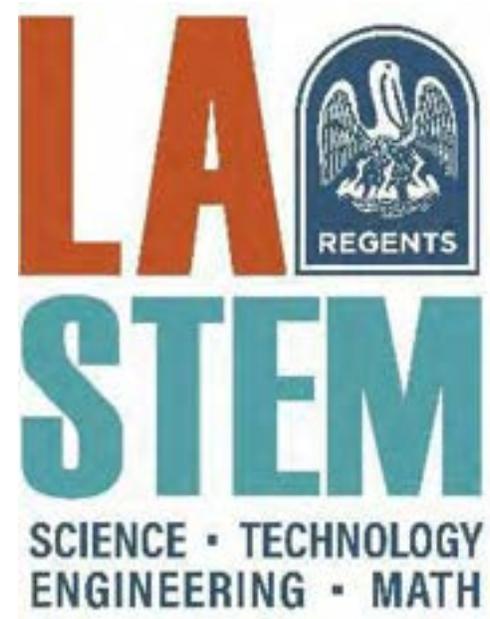
Sue Barrosse, MBA, MSPH
Director of Enrollment Management

UQ-Ochsner Doctor of Medicine Program Overview

THE UNIVERSITY OF QUEENSLAND
AUSTRALIA

Ochsner Health

Medical School

The University of Queensland

Top 50
global university

6
faculties

30+
teaching and
research sites

8
research
institutes

Ochsner Health
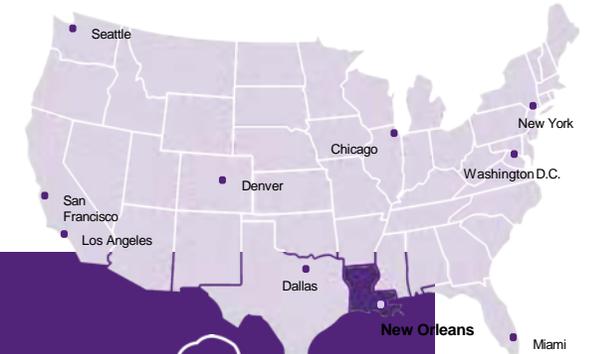
40
hospitals and
100 health centres

1,330+
physicians

90+
medical specialties

#1
hospital in
Louisiana

Doctor of Medicine Program

Four-year postgraduate MD program

Full time study

Year 1 & 2

Brisbane, Australia

Year 3 & 4

New Orleans, Louisiana

Our medical graduates

- Eligible for ECFMG certification

- Practice in all 50 US states and qualify for practice in Australia

THE UNIVERSITY OF QUEENSLAND AUSTRALIA

Ochsner Health

MD Program Overview

Structure

- 3 year long and 2 courses

- Whole of program approach to assessment

- Continuous learning and development of competencies

- Professional identity as part of healthcare team

Classroom Directed

Clinical team member

		Progress Decision
Year 1	Foundations of Medical Practice Year-long, 16 Unit Course 4 days structured teaching - 1 teaching - 1-day basic clinical skills	Progress Decision
Year 2	Developing knowledge and skills in Medicine Year-long, 16 Unit Course 3 days structured teaching – 2 days clinical and professional practice including longitudinal placements in generalist hospital outpatient & general practice settings	Progress Decision
Year 3	Clinical Immersion across the Lifecycle Year-long, 16 Unit Course 1 day a week structured teaching – 4 days clinical experience	Progress Decision
Year 4	Advanced Practice 1 day a week structured teaching – 4 days clinical experience	Elective/ Remediation	Transition to Practice [internship/residency]	Graduation Decision

Learning experiences

Lectorials

Traditional lecture with active learning through student engagement and problem solving

Masterclasses

Demonstration of a skills by an expert or auditing an individual's consultation

Integrated Symposia

Learning interactively by being with experts in the field which may include patients or relevant community members

Workshops

Engage collaboratively in activities, discussion or debate in response to theoretical learning

Clinical plenary

Sessions led by clinical experts across the various disciplines with a focus on clinical relevance

Team-based learning (TBL)

Pedagogical strategy that engages student knowledge through individual testing and group collaboration

Practicals

Highly interactive, hands-on learning experiences

Clinical and Procedural Skills

Opportunity for you to practice and receive feedback in these hands-on practical sessions which will focus mainly on procedural skills

Clinical and Professional Learning

Foundations of History and Examinations; communication, history taking, physical examination and observation skills, as well as aspects of professionalism in practice

Research Opportunities

UQ and OH both have long traditions of academic excellence and scientific discovery.

Students are eligible and encouraged to participate in all the research options available in the medical program.

Ochsner Student Research Hub allows students to connect with Ochsner Clinical School research supervisors to identify an area of interest:

- Ortho - Injury prevention for Overhead Athletes
- Racial Disparities in left Atrial Occlusion Procedures
- Spine Surgery
- OB- Genetic Testing
- Dementia
- Oncology Projects

Higher Degree by Research (HDR)

Master of Philosophy (MPhil)

Intercalated

Doctor of Philosophy (PhD)

Intercalated

Ochsner Student Research Hub

Medical Student Support

We provided with easy access to a network of staff and students who are there to assist you every step along the way.

Medical School

Wellbeing support	Academic support			Peer support

Medical Student Support Services

- Wellbeing and Mental Health
- Time management, work-life balance
- Adjusting to Australia
- Exam prep and assignment Support
- Referral to specialist support services e.g. counselling, disability support, accommodation and learning support.

Personal Advisor Network

- High Impact, Quality Support Guides and Shapes Student Experience
- Fosters a spirit of Community and Connectedness

UQ Ochsner Medical Societies

- Led by Faculty with expertise in Advising and Coaching
- Social Units that promote a Sense of Community within the Ochsner Cohort

USMLE Support

- United States Medical Licensing Exam – 4 Parts
- Step 1 – The Boards
- Step 2, Clinical Knowledge (CK)
- Step 3 – Multiple Choice and Clinical Case Simulations

Student Societies

- UQMS –Univ of Queensland Medical Society
- OMSA Ochsner Medical Student Association

Special Interest Groups

- Student-led speciality interest group bringing together like-minded students.

USMLE Preparation

**Step 1
Preparation**

- USMLE Step 1 First Aid
- USMLE World Qbank
- 3 NBME Practice Exams
- OCS Step 1 Study Guide
- Dedicated USMLE Preparation Course in Year 2

**Step 2 CK
Preparation**

- USMLE World Qbank
- Additional online resources

How do Students Perform on the USMLES?

Data as of 18 January 2024

	STEP 1		STEP 2 CK	
	First Time Pass Rate	**Average Score**	**First Time Pass Rate**	**Average Score**
All Students to Date	89% (n=1,078)	219*	92% (n=890)	234
Class of 2022 (n=87)	99% (n=87)	226	96% (n=83)	240
Class of 2023 (n=97)	90% (n=97)	229	94% (n=85)	240
Class of 2024 (n=73)	90% (n=73)	Pass	100% (n=13)	250
Class of 2025 (n=87)	85% (n=72)	Pass	N/A	N/A

*Only includes 3-digit scores

What is an International Medical graduate?

Medical School

An international medical graduate (IMG) is a physician who received a basic medical degree from a medical school located outside the United States and Canada.

Certified by ECFMG

The Educational Commission for Foreign Medical Graduates (ECFMG) assess whether IMGs are ready to enter accredited residency programs in the United States.

Examination Requirements

IMG students must pass Step 1 and Step 2 of the United States Medical Licensing Examination (USMLE), which are the same examinations taken by U.S. and Canadian graduates.

Enter Residency Match

IMG students enter the National Resident Matching Program (NRMP) with all other medical graduates.

How do we Match?

Our graduates secure residencies in highly competitive programs, at leading hospitals across the US.

How do students perform in the NRMP Match?

Year	Number of positions	Total Applications	UQ Ochsner	MD Seniors	DO Seniors	Non-US IMG
2023	40,375	42,952	**96%**	94%	92%	59%
2022	39,205	42,549	**98%**	93%	91%	58%
2021	38,106	42,508	**97%**	93%	89%	55%
2020	34,266	40,084	**95%**	94%	91%	61%
2019	32,194	38,376	**93%**	94%	88%	59%
2018	30,232	37,103	**95%**	94%	81%	56%
2017	28,849	35,969	**95%**	94%	85%	52%
2016	27,860	35,476	**93%**	94%	84%	50%
2015	27,293	34,905	**90%**	94%	83%	49%

Academic Entry Requirements

Medical School

Academic Entry Requirements

MCAT
504

GPA
B average

SUBJECT
prerequisites

A minimum total of 504 in the Medical College Admission Test (MCAT)

A minimum Grade Point Average (GPA) of a B average cumulative is calculated in your Key Degree, either Bachelor or Masters degree, the most recent obtained degree.

Complete two subject prerequisites. Second-Level

– Integrative Cell and Tissue Biology* and

– Systems Physiology*

*or equivalent courses

UQ online option to complete

Medical School

The University Of Queensland
AUSTRALIA

Ochsner Health

Academic Entry Requirements

MULTIPLE MINI INTERVIEW
(MMI)

Eligible applicants will be invited to participate in a multiple mini interview (MMI)

Assesses personal qualities, such as kindness and compassion and verbal communication skills.

8 successive 10 minute interviews

Conducted via Zoom

Medical School

Financial Investment

Fees

USD $67,456 (Indicative annual fee for 2023)

UQ is accredited by the United States Department of Education to administer various need-based loans to eligible US students and/or parents as part of the William D. Ford Direct Loan Program.

FAFSA application for government funding covers tuition and living expenses.

Medical School

Funding

Ochsner Physician Scholars Program
USD $135,000 toward medical school expenses

In exchange, the recipient must commit to work in an Ochsner Health facility for five years after completing residency

Available for: Family Medicine

Internal Medicine

Pediatrics/Internal Medicine (Primary Care)

Psychiatry

2023 Cohort Demographics

Gender
54% female
46% male

Ave age
26 years

Ave MCAT
510

Key Degree
masters 30%
bachelors 70%

Thank you

ochsner.uq.edu.au

ochsner.med@enquire.uq.edu.au
504-703-6163

VI. Louisiana Afterschool Network
Andrew Ganucheau, Director

AGENDA

o Moonshot Flight Crew

o STEM Next's CARE Framework

o STEM Literacy Resource Guide

Louisiana Center for Afterschool Learning

Commitment to Quality

Andrew Ganucheau
Director of Out of School Time Quality

LACAL is a statewide network whose mission for the past 12 years has and continues to be to support and encourage high-quality out of school time (OST) learning opportunities throughout Louisiana.

What we do:

- Promote and support a continuous quality improvement system through the establishment of the Louisiana Afterschool Program Quality Institute (LAPQI)

- Facilitate the collaboration of local, regional, statewide, and national partners improve the quality and access of OST programs

- Leverage best practices and research in partnership with Mott Foundation's 50 State Afterschool Network to support continuous quality improvement across the country

Million Girls Moonshot

The MGM initiative seeks to re-imagine who can engineer, who can build, who can make. It will inspire and prepare the next generation of innovators **by engaging one million more girls and youth of color in STEM learning opportunities** through afterschool and summer programs over the next 5 years.

Moonshot Flight Crew

Yaniret Abreu
Gretna

Moonshot Flight Crew

Yaniret Abreu

Gretna

Yaniret
Louisiana

MILLION GIRLS MOONSHOT
A STEM NEXT INITIATIVE

Moonshot Flight Crew

Yaniret Abreu
Gretna

MILLION GIRLS MOONSHOT
A STEM NEXT INITIATIVE

Yaniret

11th grade
Louisiana

Moonshot Flight Crew

Yaniret Abreu
Gretna

Yaniret

2024 MILLION GIRLS MOONSHOT FLIGHT CREW
A STEM NEXT INITIATIVE

Moonshot Flight Crew

Yaniret Abreu
Gretna

MILLION GIRLS MOONSHOT
A STEM NEXT INITIATIVE

Meet Yaniret

"Get comfortable with being uncomfortable. Having this mindset helped me push through tasks where I didn't feel confident and made me muster up the courage to reach out for help when needed."

STEM Family Engagement Planning Tool

The CARE Framework

- The planning tool is designed to increase the capacity of out-of-school time (OST) STEM providers to engage families in and effective ways, building upon the promising practices.

- The key ideas, practices, and examples that inform this guide and our organizing framework known as "CARE" (Connect, Act, Reflect, and Empower).

- The framework can be used to support and improve the capacity of program staff, families, and youth, with focus on the areas most important for STEM teaching and learning, including knowledge and skills, values and beliefs, and networks of support.

10 Practices for an Engineering Mindset

Use a systematic engineering design process

Balance criteria and constraints

Consider real-world problems

Explore materials

Persist and learn from failure

Identify as engineers

Apply math and science

Evaluate and iterate

Work in teams

Envision multiple solutions

Use a systematic problem-solving process

While the products of engineering may vary, the problem-solving process used to create them is similar. In professional engineering settings, an engineering process may have dozens of phrases.

SCILS Region 8 STEM Center

In 2022, SCILS at Louisiana Tech University was on hand to distribute free STEM kits during the 2022 Peach Festival. Developed by the SCILS Director to compliment the annual festival, the kits focused around the beloved children's book "James and the Giant Peach"

Experiential Learning

The process of learning by doing

25th Anniversary

Contact Us!

Andrew Ganucheau
Director of Out of School Time Quality
andrew@louisianaafterschool.org
225-726-3700

THANK YOU!

louisianaafterschool.org

VIII. Adjournment

Lunch and Tour to Follow