## THIS IS LOUISIANA TECH UNIVERSITY





Institutional Overview

#### **INSTITUTIONAL HIGHLIGHTS**

**Tier One "National University"** for six consecutive years and one of only two public Tier One institutions in Louisiana (2012-2017 US News & World Report's Best Colleges)

Ranked the **State of Louisiana's Best University** in MONEY's 2016 Best Colleges Report.

Ranked **#1 in State of Louisiana** and **#6 in U.S.** in list of "50 Most Underrated Colleges in America" (Business Insider)

**Highest ranked university in Louisiana** in overall return on investment and average mid-career salaries for graduates (PayScale.com 2016-17 College Salary Report and 2015 College ROI Report)

Ranked as one of the **nation's 25 Most Affordable Colleges** (for both in-state and out-of-state students) by Newsweek and The Daily Beast

Ranked **#1 in State of Louisiana and #35 in the nation** for best college "risk-reward" (LendEDU 2016)

Cited in Wall Street Journal (3/2/15) as **#5 in list of nation's Best Public Universities for Return on Investment** (for all majors, based on projected earnings over 20 years.)





#### **REGIONAL PEER INSTITUTIONS**

#### All Institutions that are:

- Carnegie Foundation **Doctoral Universities**
- US News &World Report **Tier One National Universities**
- Public Institutions





Research & Development

Academics

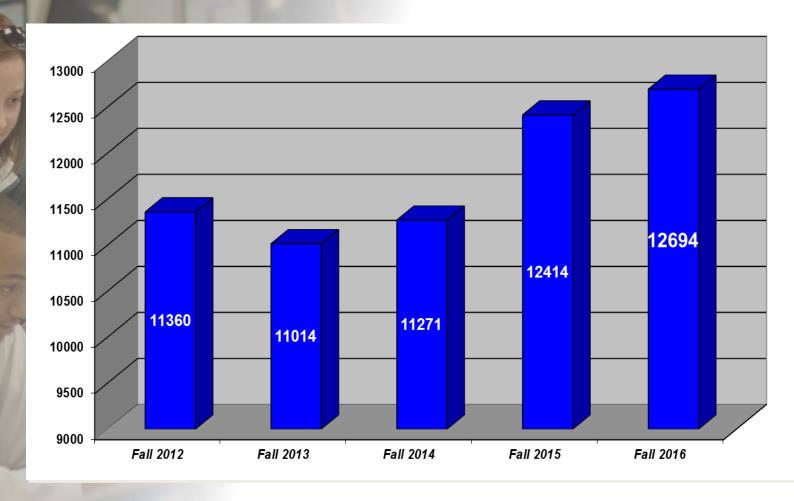
Community Student Life & Economic

Foundation

Athletics

#### **TOTAL HEADCOUNT**

SOURCE: Louisiana Board of Regents





Institutional Highlights

Research & Development

Academics

Community & Economic Impacts

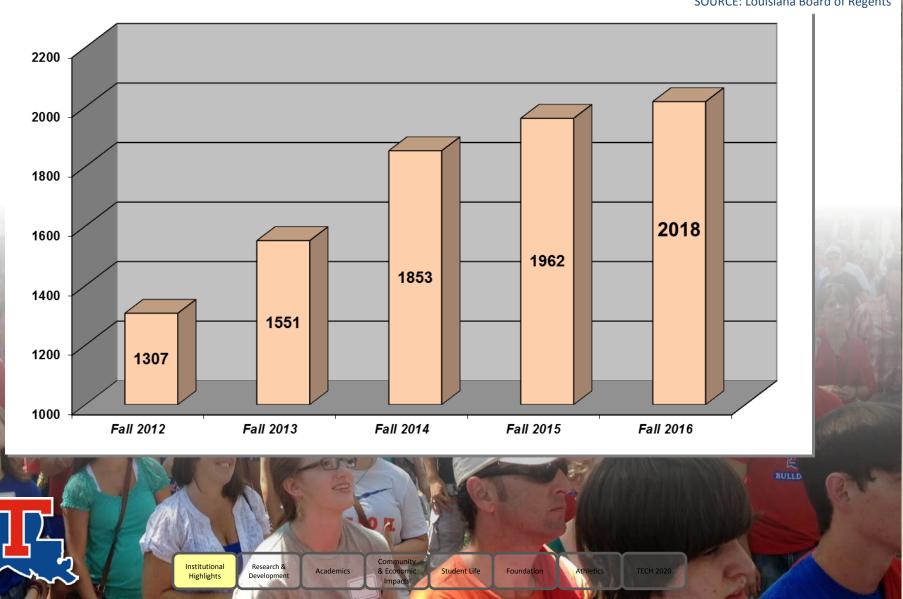
Student Life

Foundation

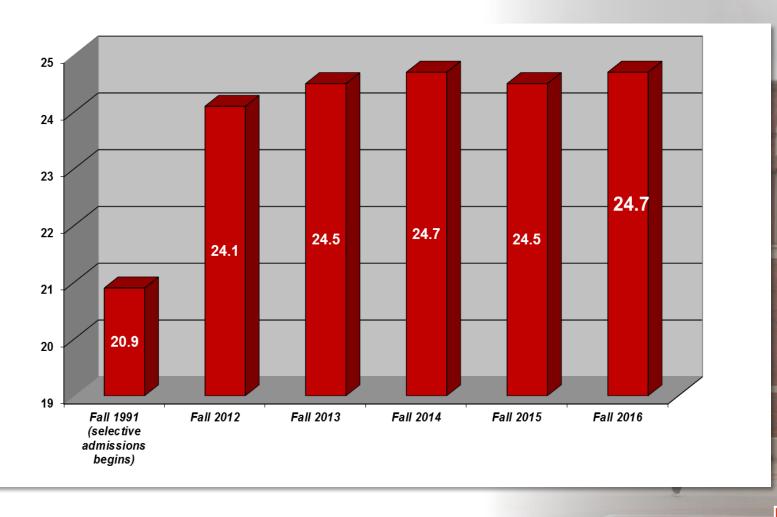
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#### FIRST-TIME FRESHMAN ENROLLMENT

**SOURCE:** Louisiana Board of Regents



#### **AVERAGE FRESHMAN ACT SCORE**





Institutional Highlights

Academics

Research &

Development

Community & Economic Impacts

Foundation

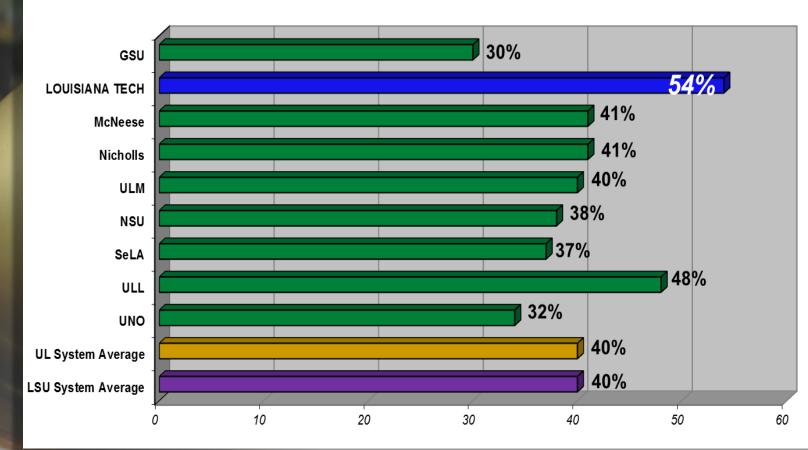
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#### **GRADUATION RATE**

(SAME INSTITUTION - 1<sup>st</sup> award, 150% time)

SOURCE: IPEDS – 2008 FTF Cohort (Baccalaureate Degrees)



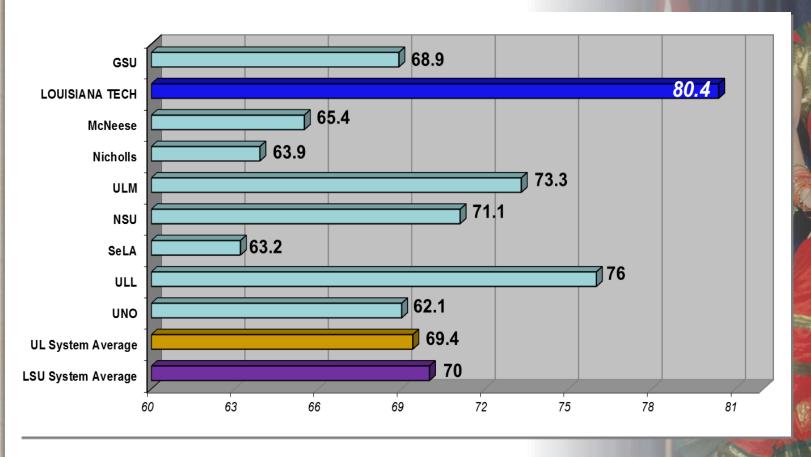


 
 Institutional Highlights
 Research & Development
 Academics
 Community & Economic Impacts
 Student Life
 Foundation
 Athletics
 TECH 2020

#### **RETENTION RATE**

#### (Freshman – SAME INSTITUTION)

SOURCE: Louisiana Board of Regents – 2014 to 2015 FTF Cohort



Institutional Highlights

Research & Academics Community & Economic Impacts

Student Life

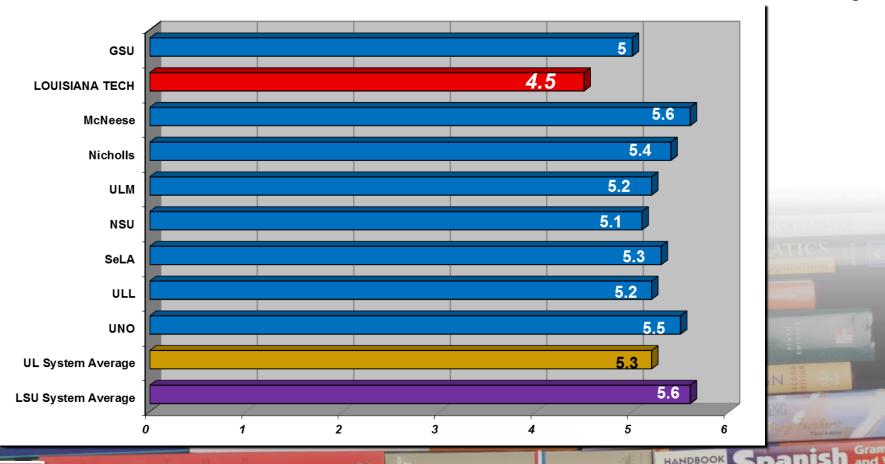
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#### YEARS TO COMPLETION

(First-time, Full-time Baccalaureates)

**SOURCE:** Louisiana Board of Regents

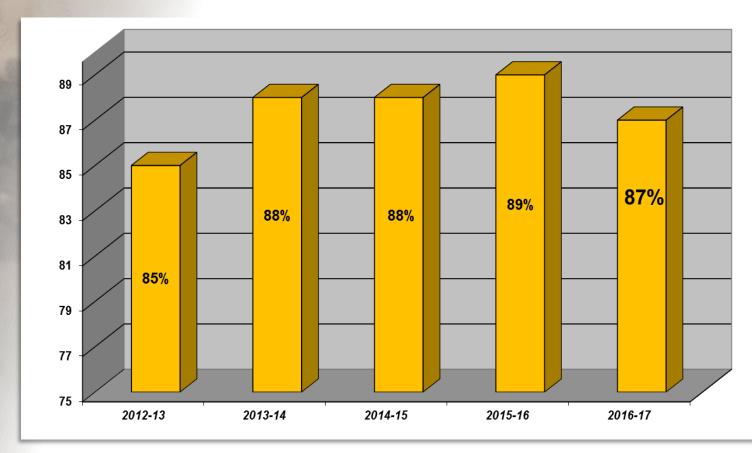




#### **STUDENTS RECEIVING 'TOPS'**

(First-time, Full-time LA Residents)

SOURCE: Louisiana Tech Office of Financial Aid





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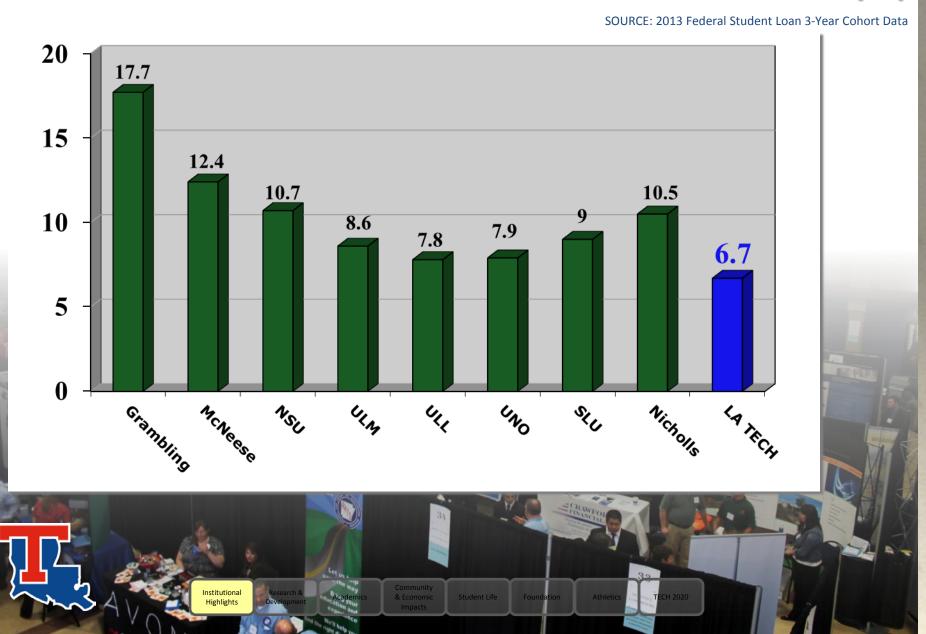
Academics

Community & Economic Impacts

Student Life Foundation Athletics

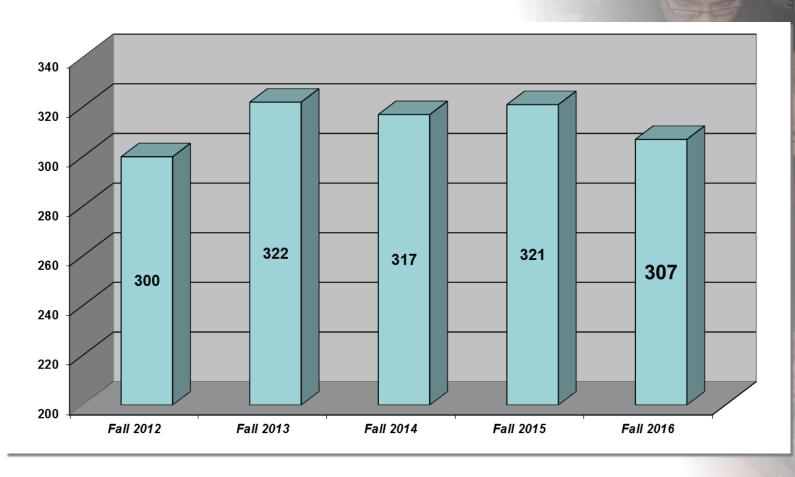
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#### **STAFFORD LOAN DEFAULT RATES (%)**



#### **DOCTORAL ENROLLMENT**

**SOURCE:** Louisiana Board of Regents





Institutional Research & Development

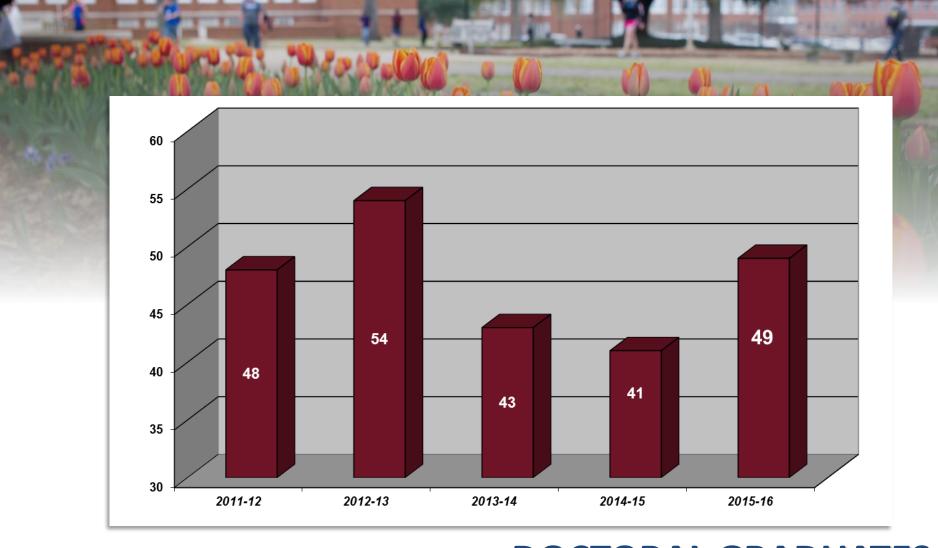
Academics

Community & Economic Impacts

Foundation

Student Life

Athletics



#### **DOCTORAL GRADUATES**

SOURCE: Louisiana Tech Office of Institutional Research



Institutional Highlights

Research & Development Academics Community & Economic Impacts

Community & Student Life Foundation Athletics TECH 2020

#### **HIGHLIGHTS**:

**Top 5 in the nation** among U.S. institutions for number of **start-ups formed** per research dollar, according to AUTM.

**Top 10 in the nation** among U.S. institutions for **number of U.S. patents issued** per research dollar, according to AUTM

**Top 20 in the nation** among U.S. institutions for **Reports of Invention (ROI)** per research dollar, according to AUTM

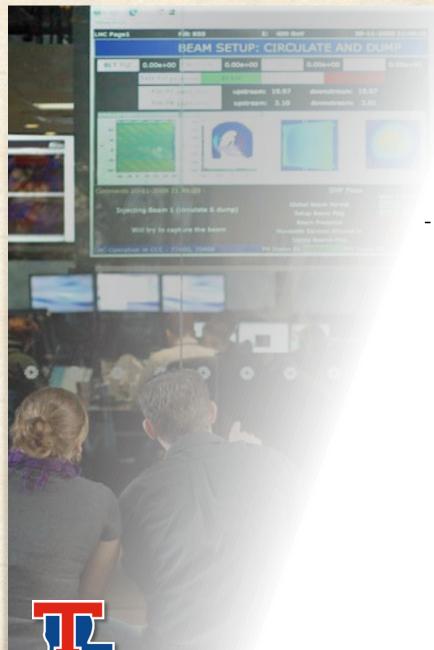
Co-Lead institution for **5-year \$20 million** National Science Foundation (NSF) Center for Innovations in Materials and Manufacturing

Two Fellows named to the **National Academy of Inventors** – Dr. Yuri Lvov - 2014, Dr. Leon Iasemidis - 2016

**2014 Humboldt Research Award** for physics and 2008 Small Times Magazine **Innovator of the Year - Dr. Yuri Lvov** 







BY THE NUMBERS

(Summary of IP outcomes – FY2012 through FY2016)

- 85 Reports of Invention (ROI)
- 58 U.S. Patent Applications (regular and provisional)
  - 30 U.S. Patents Issued
  - 14 Foreign Patents Issued
  - 18 Licenses and Options Executed
    - 6 Start-up Companies

#### Average between 5 and 7 ROIs per \$10 million

in research expenditures

- well above the national average of 4 ROIs

13 U.S. patents issued in FY2016 – highest single-year total in university history.

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#### **RESEARCH CENTERS/INITIATIVES:**

Louisiana Tech Research Institute (LTRI)

Louisiana Tech Enterprise Center

Center for Entrepreneurship & Information Technology (CEnIT)

Office of Intellectual Property & Commercialization (OIPC)

Technology Business Development Center (TBDC)

The Institute for Micromanufacturing (IfM)

Trenchless Technology Center

Center for Secure Cyberspace (CSC)

Center for Biomedical Engineering & Rehabilitation Science (CBERS)

Center for Applied Physics Studies (CAPS)

Science and Technology Education Center (SciTEC)

Waggonner Center for Civic Engagement and Public Policy

**Sport and Movement Science Laboratory** 

Professional Development and Research Institute on Blindness

Applied Research for Organizational Solutions (AROS)

Center for Health Analytics, Center for Healthy Children

CO:Lab



#### <u>Top 5 U.S. Institutions for Start-Ups Formed\*</u>

\*per \$100 million of R&D expenditures; includes universities, research hospitals and institutions - 2014 AUTM U.S. Licensing Activity Survey

1	Stevens Institute of Technology
2	University of North Carolina - Charlotte
3	Cold Spring Harbor Laboratory
4	WiSys Technology Institute
5	LOUISIANA TECH UNIVERSITY
6	Georgia Regents University
7	Duquesne University
8	University of Toledo
9	Whitehead Institute for Biomedical Research
10	Clemson University
	Public/Private R. ass Growt Research and Dev Jire
	2
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	2 3 4 5 6 7 8 9 10

1	WiSys Technology Foundation
2	California Institute of Technology
3	Duquesne University
4	University of Akron
5	Rice University
6	Northern Illinois University
7	Drexel University
8	LOUISIANA TECH UNIVERSITY
9	University of North Carolina - Charlotte
10	Rochester Institute of Technology

#### Top 10 U.S. Institutions for Number of U.S. Patents Issued\*

\*per \$10 million of R&D expenditures; includes universities, research hospitals and institutions  $\,$  - 2014 AUTM U.S. Licensing Activity Survey



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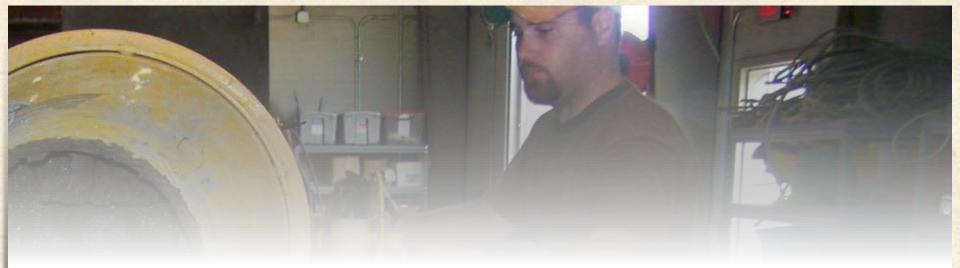
Academics

Community & Economic Impacts

Student Life

Foundation

Athletics



NEW COMPANY START-UPS:

Artificial Cell Technologies (2003)

Aura Nanotechnologies (2004)

BioPassword (2005)

BrainVital (2006)

Nano Pulp and Paper (2006)

Network Foundation Technologies (2006)

HoloChip (2006)

Better Paper Technologies (2006)

SensaCoil (2007)

Plutonyx (2007)

Ultrascan (Beyond Vision) (2008)

Carbon Capture Energy Systems (2008)

Nemucore (2008)

Macon Ridge Foods (2009)

ShuaTech Chemical Systems (2010)

Patin Research Group (2010)

Advanced Aerospace Reconn. (2010)

Nanovations (2011)

American Strategic Technologies (2012)

Jupiter Fuels (2012)

OrganicNano (2013)

Magneto Innovations (2013)

Innolyzer (2014)

Pelican Defense (2014)

Alchemy (2014)

Southern Biomedical Products (2015)



nstitutional Highlights Research & Development Academics Research & Student Life Foundation Athletics TECH 2020

#### **PARTNERSHIPS WITH COMPANIES:**

Institutional

Baxter Pharmaceuticals
Bausch and Lomb
Sensidyne Corporation
Avoyelles Energy
Entergy Corporation
Radiance Technologies
Cameron International
PPG

International Paper

Frymaster

Kingtool

CenturyLink

**CLECO** 

**CSRA** 

**IBM** 

**Monster Moto** 





Industry Consortium for Innovations in Communications, Information, and Cyberspace (IC<sup>3</sup>)

#### **Charter Members:**

- Amdocs
- CenturyLink
- Fenway Group
- Cyber Innovation Center

Workforce and Technology Development IT Certificate

- 15 hours, all majors
- Industry participation (IBM, HGA, GC, Bont)



Industry Consortium for Innovations in Communications, Information, & Cyberspace



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Partnership with CSRA and CIC (ACE @ Louisiana Tech University)

Louisiana Tech has **partnered with global IT leader CSRA** and the Cyber Innovation Center (CIC) in Bossier City to offer a comprehensive suite of computer science and cyber-related programs and **unique career opportunities right here in north Louisiana** that are designed to meet the current and future needs of CSRA and our region.

Louisiana Tech will produce graduates with skills that closely align with the needs of CSRA while offering graduates unprecedented career opportunities in north Louisiana.

The partnership with CSRA also offers seeks to expand the state's knowledge economy by keeping more of its top graduates, from high-tech and high demand fields, working within Louisiana.



### ENTERPRISE CAMPUS AT LOUISIANA TECH UNIVERSITY RESEARCH PARK

Institutional Highlights Research & Development

Academics

Community & Economic Impacts

Student Life

Foundation

Athletics



#### Mission:

To provide an environment that supports the powerful engagement of industry, government and community partners in the research, development, and educational activities of Louisiana Tech University.

#### Vision:

The Enterprise Campus will serve as the intellectual epicenter for technology enterprises in North Louisiana.

#### Goals:

- Foster collaborations between the University and partners in industry and government.
- Provide resources for emerging technology companies and innovators to conduct R&D.
- Advance the region's competitiveness in the knowledge economy.
- Enhance research and educational opportunities for our faculty and students.
- Afford job opportunities for our graduates.
- Contribute to revitalizing the geographic and economic core of the community.



#### **TECH POINTE**

Tech Pointe is a 42,000 s/f, multi-tenant facility designed to support the stringent demands of 24/7 high-tech companies. All tenants are provided generator support for uninterrupted power and have access to Louisiana's information superhighway, LONI, as well as the premier computational facilities of the Air Force Cyberspace Research Lab.



























Research & Development

Academics

**Impacts** 

Student Life

Foundation

Athletics

#### **INDUSTRY PARTNERSHIPS & ENTREPRENEURSHIP**

#### **HIGHLIGHTS**:

**LA\_I6 Proof of Concept Center:** Focused on moving green innovations to market. Eight technology licenses generated during first 18 months of operation: bio-fuels, geopolymer concrete, energy harvesting, energy efficiency.

**I-20 Corridor Regional Business Accelerator:** Novel strategy for accelerated business growth and regional economic development. Nine entrepreneurs in first round of program. Three new ventures received startup funding in first nine months.

**Innovation Enterprise Fund:** Regions first seed grant fund for supporting new technology-based ventures. Provided seed funding to eight local technology startups.

**IC3: Industry Consortium for Innovations in Communications, Information, and Cyberspace:** Promotes research, technology transfer, and workforce development in north Louisiana within the communications, information, and cyberspace industries.

**I-20 Top 20:** Community networking event showcasing new technologies, new ventures, and local technology entrepreneurs.







#### **ACADEMIC PROGRAMS**

#### **DOCTORAL PROGRAMS:**

Molecular Sciences and Nanotechnology (Interdisciplinary)

Philosophy in Computational Analysis and Modeling (Interdisciplinary)

Engineering (4 concentrations - Interdisciplinary)

**Biomedical Engineering** 

Biomedical Engineering (Ph.D./Joint MD in conjunction with LSU Med Center - Shreveport, LA)

**Education Curriculum and Instruction** 

**Educational Leadership** 

**Counseling Psychology** 

Industrial/Organizational Psychology

Business Administration (6 concentrations)

Audiology





#### **ACADEMIC PROGRAMS**

#### STATE OF LOUISIANA'S ONLY...

PhD in Molecular Sciences and Nanotechnology

PhD in Biomedical Engineering (public university)

PhD in Industrial and Organizational Psychology

PhD in Computational Analysis and Modeling

PhD in Counseling Psychology

Doctor of Business Administration (DBA)

Master's in Molecular Sciences and Nanotechnology

Master's in Microsystems Engineering

Master's in Health Information Management

BS in Biomedical Engineering (public university)

BS in Geographic Information Science

BS in Nanosystems Engineering

BS in Cyber Engineering

**Aviation Management Program** 



Institutional Research & Highlights Development

Academics

Community & Economic Impacts

Student Life Foundation

Athletics



#### **ACADEMIC PROGRAMS**

#### NORTH LOUISIANA'S ONLY...

PhD in Molecular Sciences and Nanotechnology PhD in Biomedical Engineering (public university) PhD in Industrial and Organizational Psychology PhD in Computational Analysis and Modeling PhD in Counseling Psychology Doctor of Business Administration (DBA) Doctor of Audiology (AuD) Master's in Molecular Sciences and Nanotechnology Master's in Microsystems Engineering Master's in Health Information Management Master's in Professional Accountancy (MPA) Master's in Industrial/Organizational Psychology Master's in Nutrition and Dietetics Master's in Applied Physics Master's in Mathematics Master's in Computer Science Master's in Engineering and Technology Management Master's in Fine Arts (MFA) BS in Biomedical Engineering (public university) BS in Geographic Information Science BS in Nanosystems Engineering BS in Cyber Engineering Bachelor's in Forestry Bachelor's and Master's in Architecture **Aviation Management Program Accredited Interior Design Program** 

Student Life

Foundation

Athletics

#### **GLOBAL\_CAMPUS**

Louisiana Tech's Global\_Campus uses the latest web-based tools and technologies to **provide electronic learning opportunities** to meet the needs of undergraduate, graduate, and non-traditional students in the global community.

Global\_Campus offers a variety of degree and certificate programs as well as general education courses to students all over the world – anytime, anywhere.



Louisiana Tech's Division of Continuing Education and Distance Learning (CEDL) has partnered with seven online vendors providing over 7,000 online training and academic courses to address today's workforce development needs.

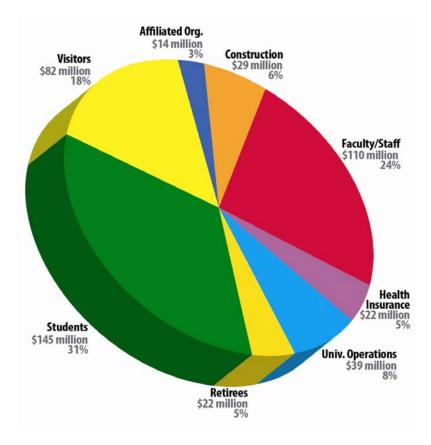


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# Annual State-wide

#### **COMMUNITY AND ECONOMIC IMPACT**

SOURCE: ULS Economic and Community Impact Study - 2009



**Spending Impact** \$462.5 million

Institutional Highlights

Research & Development

Academics

Community & Economic

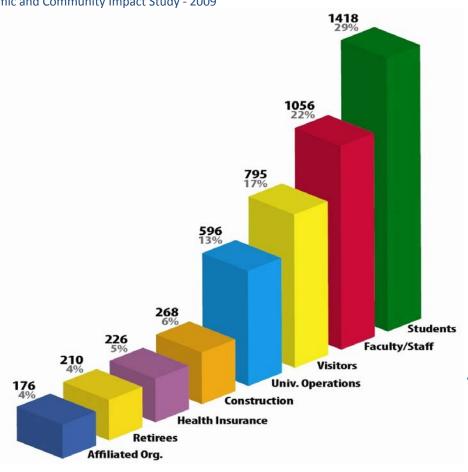
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Foundation

Athletics

#### **COMMUNITY AND ECONOMIC IMPACT**





**Annual** State-wide **Jobs Impact** 

Institutional Highlights

Research & Development

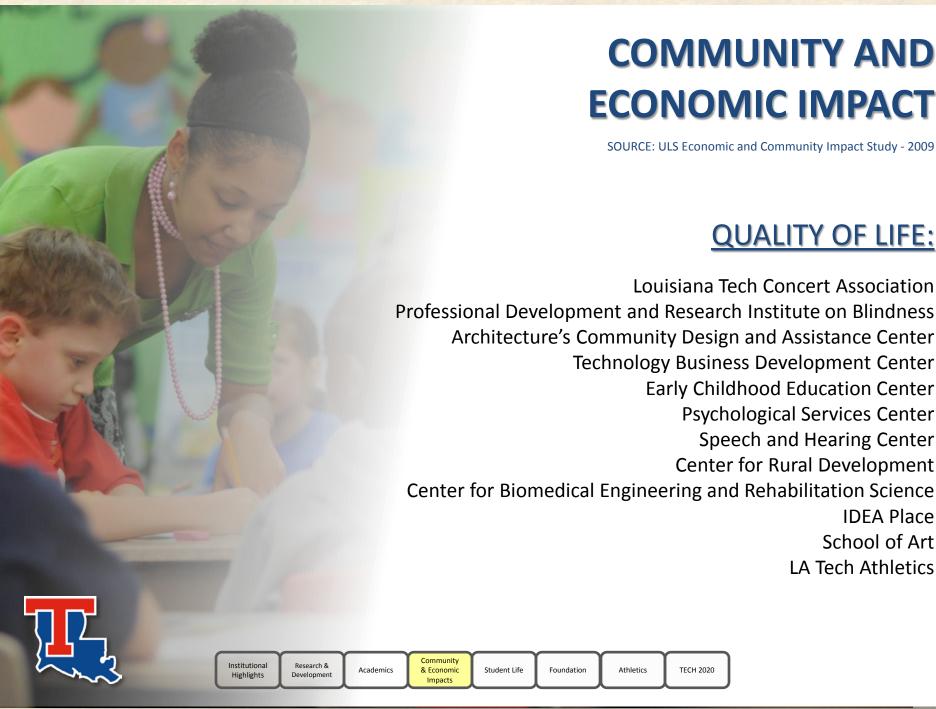
Academics

Community & Economic

Student Life Foundation

Athletics

**TECH 2020** 



#### **COMMUNITY AND ECONOMIC IMPACT**

SOURCE: ULS Economic and Community Impact Study - 2009

#### **QUALITY OF LIFE:**

Professional Development and Research Institute on Blindness Architecture's Community Design and Assistance Center **Technology Business Development Center** Early Childhood Education Center **Psychological Services Center** Speech and Hearing Center Center for Rural Development Center for Biomedical Engineering and Rehabilitation Science **IDEA Place** School of Art LA Tech Athletics

## COMMUNITY AND ECONOMIC IMPACT

SOURCE: ULS Economic and Community Impact Study - 2009

ROI state-wide, per dollar of state funding:

<u>\$7.73</u>

#### **ADDED VALUE:**

65% - Graduates retained in state (10 years)

\$973 million - Graduates earnings (10 years)

119, 489 - Student, faculty and staff visitors (per year)

**56.5 hours** - Student, faculty and staff volunteerism (per person, per year)



Institutional Research Highlights Developm

Academics

& Economic
Impacts

Foundation

Student Life

Athletics

#### **STUDENT LIFE**

Approximately \$1 million in upgrades to the Lambright Health and Wellness Center to take place over next two years. Facility accommodates over 2,000 visitors per day from 5:00 AM until 12:00 midnight.

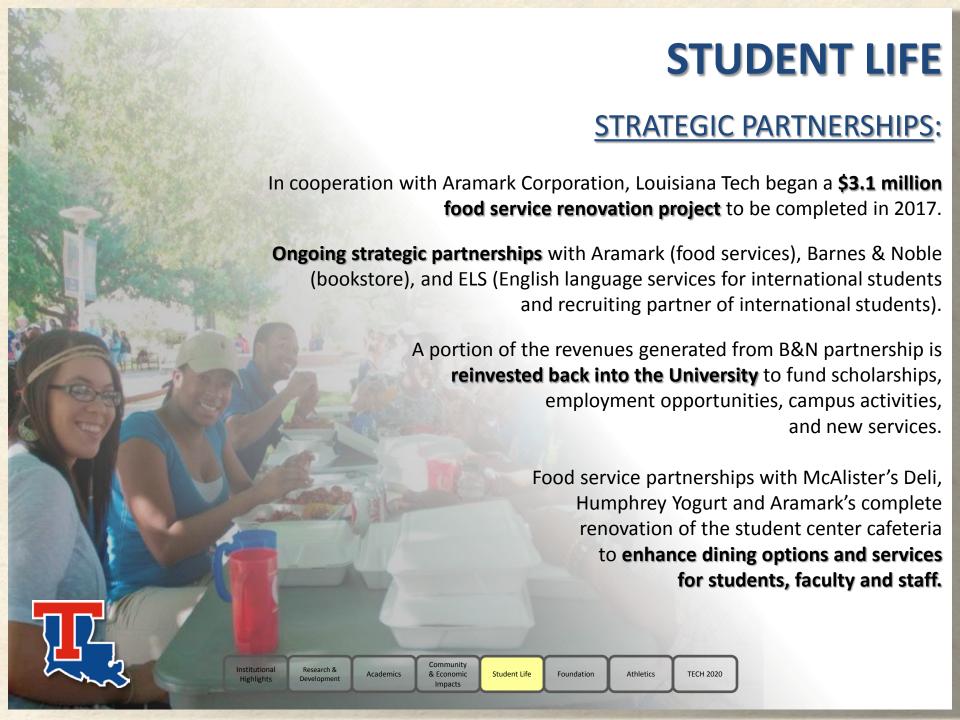
Wellness Committee, comprised of professionals from recreation, counseling and health services, meets monthly to determine needs and design programming for student body health and wellness.

Development of **new multipurpose Recreation fields** at the sites of the old

Neilson and Caruthers resident halls.









# **STUDENT LIFE**

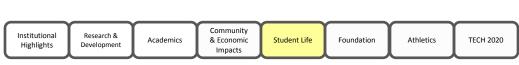
## **RESIDENTIAL LIFE:**

**620 new apartment and suite style beds** to replace Pearce and Harper residence halls. Project will be completed in 2018 at a total cost of \$29 million.

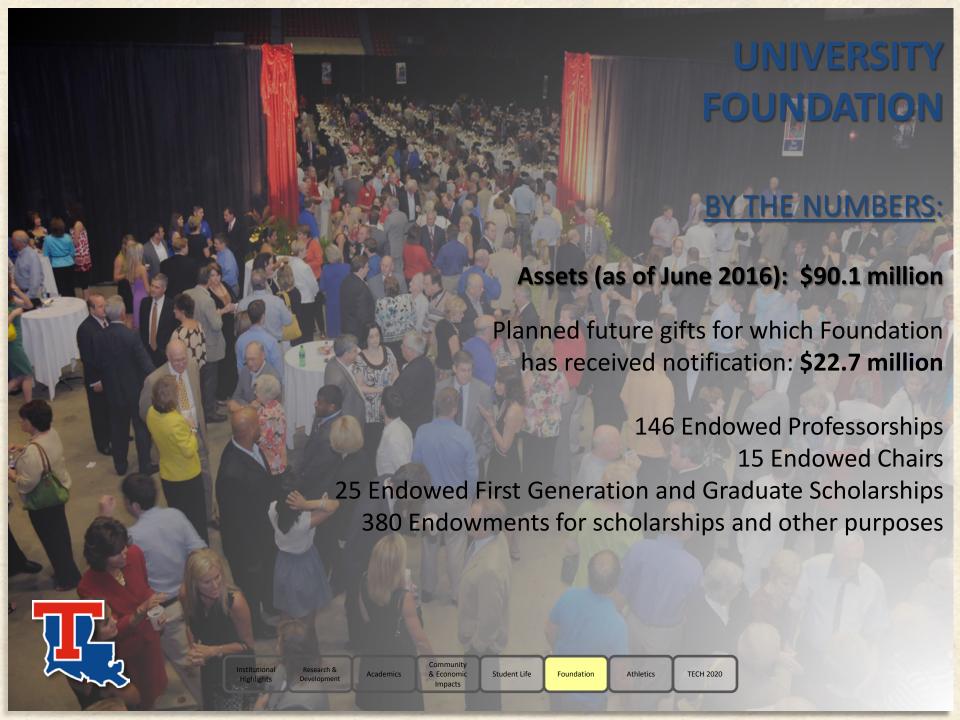
**Campus parking improvement project**, to be completed in 2018 at a total cost of \$7 million, will involve acquisition of land, building new lots, resurfacing existing lots, and painting existing curbs.

**\$500,000 campus lighting project** to begin in 2017 to provide new uniform lighting in the campus core, focusing first on the Quad and the Centennial Plaza.

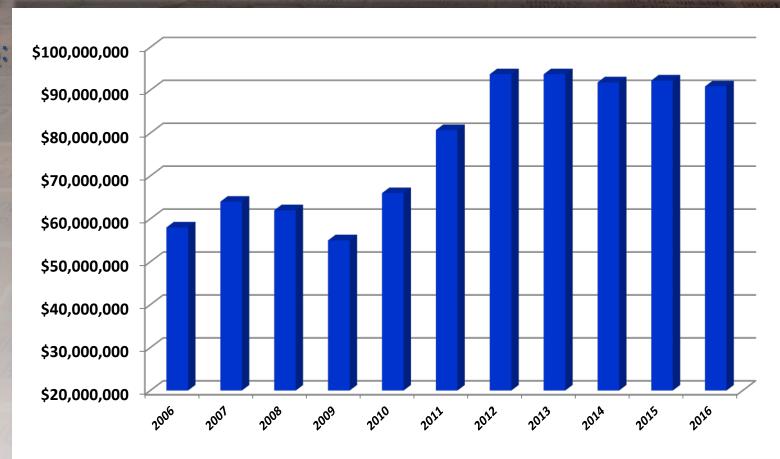
Park Place student housing community earned South Central Construction's **Best of 2010 Award of Merit** in the higher education/research category.







# UNIVERSITY **FOUNDATION**



Institutional Highlights

Research & Development

Academics

& Economic

Impacts

Student Life

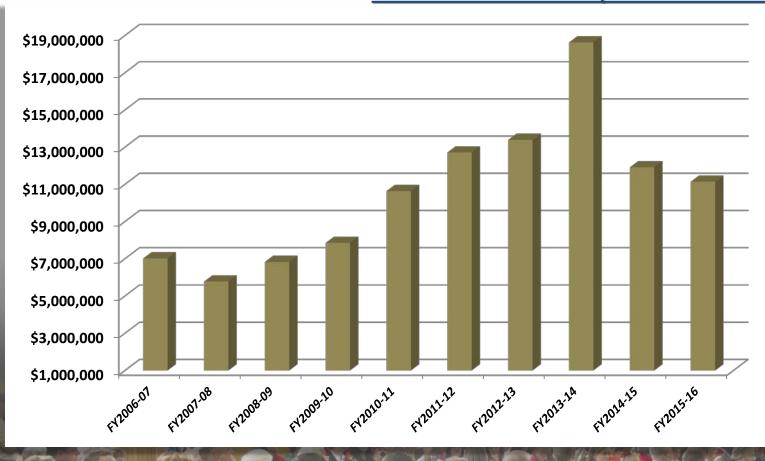
Foundation

Athletics

**TECH 2020** 

# **UNIVERSITY FOUNDATION**

**CONTRIBUTIONS (Ten-Year Comparison):** 















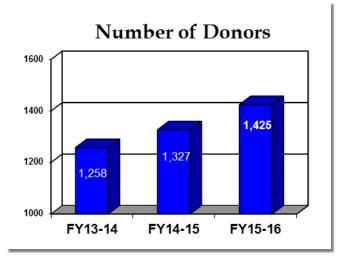


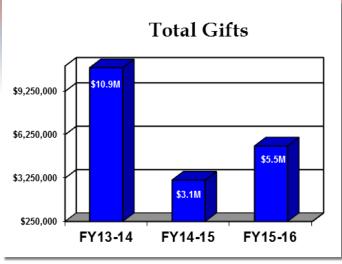


# Number of Gifts 3200 3000 2800 2,455 2,455

FY14-15

FY15-16





# UNIVERSITY FOUNDATION

TOTAL ATHLETICS CONTRIBUTIONS:



FY13-14

Institutional Highlights Research & Development Academics Community & Economic Impacts Student Life Foundation Athletics TECH 2020

# LA TECH ATHLETICS

# **HIGHLIGHTS**:

One of only five FBS schools in the country to record 9+ wins in football, 20+ wins in men's basketball and 40+ wins in baseball in 2015-2016 (along with Florida, Florida State, Ohio State and Ole Miss).

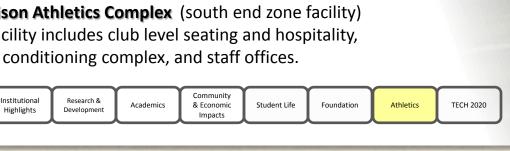
One of only 12 FBS programs in the country to play postseason in football, men's basketball and baseball (along with Florida, Connecticut, Florida State, Texas Tech, Texas A&M, Ohio State, Washington, Duke, Louisiana Tech, Arizona, Utah and Miami (Fla.)

Achieved a **Graduation Success Rate (GSR) of 83%** and a Federal Graduation Rate (FGR) of 62% in the most recent Federal Graduation Rate Report released by the NCAA. GSR and FGR were the highest in the history of university.

All 16 athletic programs remained penalty-free per the NCAA's most recent Academic Progress Rates (APR) report. Women's basketball and men's cross country both posted perfect 1,000 single year APR scores.

In a continuing effort to elevate athletic facilities, Louisiana Tech completed \$1.2 million video display board and sound system (Paul Millsap Vision presented by Origin Bank) in the Thomas Assembly Center.

Opened the \$23 million Davison Athletics Complex (south end zone facility) at Joe Aillet Stadium. New facility includes club level seating and hospitality, state-of-the-art strength and conditioning complex, and staff offices.





### **TECH TO THE PROS:**

#### 72 Bulldogs have played in the NFL

Terry Bradshaw (4x Super Bowl Champion, Pro Football Hall of Fame)
Fred Dean (2x Super Bowl Champion, Pro Football Hall of Fame)
Willie Roaf (11x Pro Bowler, Pro Football Hall of Fame)

#### 7 Bulldogs have played in the NBA

Karl Malone (13x NBA All-Star, 2x NBA MVP, Basketball Hall of Fame)
P.J. Brown (NBA Championship - Boston Celtics)
Paul Millsap (Atlanta Hawks)

#### 18 Lady Techsters have played in the WNBA

Teresa Weatherspoon (2x Olympic Gold Medalist, Basketball Hall of Fame)
Cheryl Ford (3x WNBA champion, 4x WNBA All-Star, 2003 WNBA Rookie of the Year)
Vickie Johnson (2x WNBA All-Star, most WNBA games and minutes played)

#### **16** Bulldogs have played in MLB

David Segui (Baltimore, New York (NL), Montreal, Seattle, Toronto, Texas)

Phil Hiatt (Los Angeles (NL), Kansas City, Detroit)

Mike Jeffcoat (Cleveland, San Francisco, Texas, Florida)



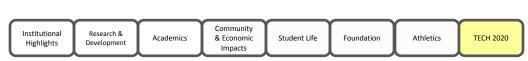


# **TECH 2020**

Tech 2020 is a **roadmap for Louisiana Tech's transition from a very good institution to a great one** – one that most effectively serves the citizens of the State of Louisiana and prepares us to be competitive in this complex and rapidly changing world.



The vision is bold: Louisiana Tech University will be recognized as a top public research university with an unparalleled integrated educational experience ...nothing less will do.





# **TECH 2020**

Tech 2020 sets challenging goals by which we will benchmark our progress

- Graduation rates of 70%
- First-year retention rates of 85%
- 25% of first-time freshmen in the top 10% of their high school class
- 20-25% graduate student enrollment
- Triple our research productivity
- 10 patents granted per year
- 20 active tenants & five graduates per year from our Technology Incubator
- Research Park with six tenant companies
- Triple our endowment

It's the considered judgment of the Louisiana Tech Family that an enrollment of 15,000 students would maximize achievement of these goals.



Institutional Research & Highlights Developme

Academics

& Economic Impacts

Student Life Foundation

Athletics

TECH 2020



STRATEGIC FOCUS: FY2016-17

The following strategic focus areas have ben identified by the TECH 2020 Leadership Team as most critical during FY2016-17:

**GROWTH:** Growth will enable Louisiana Tech to have greater impacts, on a national-scale and for the benefit of the region, and will enable University to be nationally competitive in its academic, research, and athletics programs, for talented faculty and students, and to provide the resources needed for faculty, facilities and student support.

<u>PARTNERSHIPS</u>: Differentiated excellence through interdisciplinary collaborations and partnerships will continue to enable Louisiana Tech to share resources, offer rich educational experiences, and seek solutions that provide additional resources to help University fulfill its mission.

**LEADERSHIP**: Embracing the responsibility of a national research university, leadership in educational outcomes, leadership in research impacts and leadership in how Louisiana Tech will conducts its business to show the way for a better future through educational attainment and economic prosperity for our citizens.

Institutional Research & Academics Community & Economic Impacts

Research & Academics Student Life Foundation Athletics TECH 2020



# **GLOBALLY RENOWNED BY 2030**

Times Higher Education and World University Rankings have identified Louisiana Tech University as one of 20 universities in the world and just one of nine universities in the U.S. that could "challenge the elite universities" and become globally renowned by the year 2030.

An independent study conducted by Firetail, a strategy consulting firm in Great Britain, identified a "Class of 2030" that consisted of an emerging group of "challenger" universities that are quickly rising in the world rankings and "have an opportunity to become globally renowned in the next 10 to 20 years."

Institutional Highlights Research & Development Academics Research & Economic Impacts Student Life Foundation Athletics TECH 2020

# FROM THE EDITORS (during LSU-S merger debate)

"Tech's reputation, well-deserved, is formidable beyond northern Louisiana, and **Tech would thrive in Shreveport**.

Out from under the dominance of the LSU flagship and **strengthened by Tech's leadership, academic prowess and brand**, LSUS would thrive as Tech's Shreveport Campus." *Editorial Board: American Press* 

"Louisiana Tech University, the jewel of Ruston and arguably **the No. 2 higher education institution in the state**, could be on the verge of a huge expansion that would put that argument to rest." **Editorial Board: Monroe News-Star** 

"Tech has proven itself as **a major player in the university setting in Louisiana and the South**, and it's time it be given an opportunity to spread its wings and attempt to make the best out of a less than perfect situation [in Shreveport.]"

\*\*Editorial: Ruston Daily Leader\*\*



