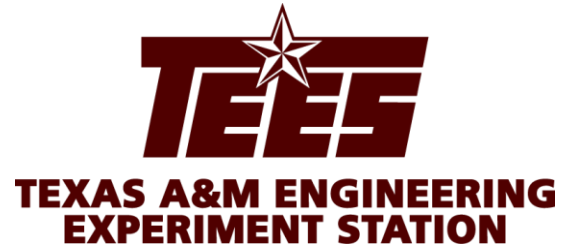


**2015-2020**

TEES is an internationally-recognized world leader in transformational engineering helping government and industry partners deliver innovative technology solutions to grand challenges in energy, infrastructure, national security and safety, healthcare, information systems and sensors, materials and manufacturing, technology transfer, and workforce development.



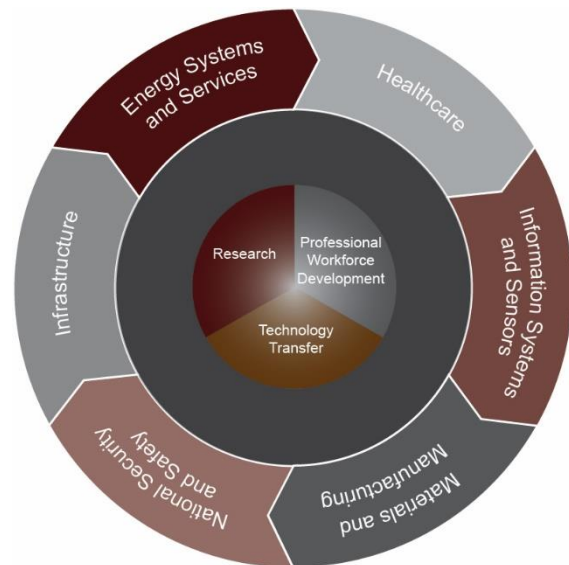
# **TRANSFORMING THE WORLD**

**Texas A&M Engineering Experiment Station Strategic Plan**

*Texas A&M Engineering Experiment Station (TEES) has transformed our world through innovative engineering solutions to society's greatest challenges through research, workforce development and technology leadership for over a century.*

*Our comprehensive approach ensures that the companies and agencies can adapt to a changing world. Partnerships are built on a commitment to solve real-world challenges that extend beyond the laboratory. Ultimately, TEES provides the human and technical resources that companies and governments need to create opportunities for leadership in new ideas and engineering innovation.*

*For 100 years, TEES has performed groundbreaking engineering research and developed technology in areas of strategic importance to the economy and our quality of life including energy systems and services, national security and safety, healthcare, infrastructure, materials and manufacturing, information systems and sensors, technology transfer, education and workforce development.*



**Over the next five years, TEES will continue to pursue its mission by extending its leadership position globally and expanding its role as a leader in shaping the national research and technology agenda.**

## **Extending Our Charter to the World**

The TEES mission, as defined by our Charter as a Texas state agency, is to (1) perform quality research to address society's needs, (2) support the state's workforce through continuing and professional education and (3) develop and transfer technology to industry.

**Our success in research, workforce development, and technology transfer has made it possible for TEES to expand its role as a state and national leader. Achieving our mission over the next five years supports this new opportunity for leadership by extending our charter to the world.**

To achieve this goal, TEES has identified the following objectives in research, workforce development and technology transfer. These objectives are global and extend across all TEES research centers and divisions. By supporting these objectives, research centers within the TEES network and business leaders in the private sector can benefit from collaboration and integration that enables them to reach beyond Texas and capture opportunities to work on a global scale.

Over the next five years, TEES will strive to become an internationally recognized leader in applied research, product development, and commercialization. We will help our partners respond to changes in a dynamic world through professional and continuing education. TEES researchers will remain committed to addressing big-picture problems. We will empower our partners to become leaders in engineering innovation. We will not only work to deliver solutions, but open doors to new opportunities.

## Objectives and Strategies for Growth and Leadership

To accomplish our mission, TEES has established the following objectives.

OBJECTIVES	
<b>Research Partnership</b>	<ul style="list-style-type: none"> <li>• Shape the national research agenda</li> <li>• Extend research expertise to emerging technologies</li> <li>• Expand TEES research centers globally through strategic partnerships</li> </ul>
<b>Workforce Development</b>	<ul style="list-style-type: none"> <li>• Identify, develop and promote best practices and models for workforce development</li> <li>• Develop national standards for engineering professional development</li> <li>• Advance continuing education standards for transformational engineering with private industry</li> </ul>
<b>Technology Leadership</b>	<ul style="list-style-type: none"> <li>• Set new standards for the sharing of intellectual property</li> <li>• Create a clear path from research to the commercialization of technology, products and solutions</li> <li>• Become a recognized leader in fostering entrepreneurship</li> </ul>

The following Strategies align with the above Objectives.

STRATEGIES	
<b>Research Partnership</b>	<ul style="list-style-type: none"> <li>• Expand regional partnerships with policy leaders in Washington, DC and targeted states</li> <li>• Target “blue ocean” opportunities in healthcare, autonomous vehicles, manufacturing, infrastructure, security, workforce development innovation and other segments that are aligned with TEES experience and research</li> <li>• Identify strategic partners to establish new and expand existing TEES research centers in Europe, the Middle East, Africa, Asia and Latin America</li> </ul>
<b>Workforce Development</b>	<ul style="list-style-type: none"> <li>• Create a workforce development platform for discovery, tracking, delivery and marketing</li> <li>• Partner with private industry leaders to develop an educational agenda for engineering specifically in science, technology, and mathematics</li> <li>• Create a standard for converting cutting-edge research into quality continuing education and learning opportunities</li> </ul>
<b>Technology Leadership</b>	<ul style="list-style-type: none"> <li>• Develop and advance Intellectual Property guidelines both internally and externally through industry partners</li> <li>• Design and build a platform for adapting new technology solutions to vertical markets</li> <li>• Partner with the nation’s leading venture capital firms and incubators on national competitions and joint investments</li> </ul>

To measure our performance over the next five years, TEES has adopted the following metrics to gauge our progress and success.

<b>METRICS FOR SUCCESS</b>	
<b>Research Partnership</b>	<ol style="list-style-type: none"> <li>1. Ensure 25% of competitive research proposals involve state-wide, national, and global collaborations</li> <li>2. Establish 5 new collaborative global centers in Latin America, Europe, Middle East, Asia &amp; Africa</li> <li>3. Host 5 industry events with a state-wide and global focus per year</li> <li>4. Double industry funding over the next 5 years</li> <li>5. Double applied research funding over the next 5 years</li> <li>6. Create 5 new funded research centers over the next 5 years at Texas A&amp;M campuses</li> </ol>
<b>Workforce Development</b>	<ol style="list-style-type: none"> <li>1. Double the number of private sector companies participating in continuing education opportunities based on TEES research over the next 5 years</li> <li>2. Increase the number of continuing education certificates issued each year by 10%</li> <li>3. Ensure 10% of all continuing education credits issued are delivered through distance education</li> <li>4. Create 10 new workforce development programs in new regions, states, or countries</li> <li>5. Establish a continuing education effort (short course, etc.) in each center over the next 5 years</li> <li>6. Increase continuing education income (sponsored and non-sponsored) by a rate of 10% per year</li> </ol>
<b>Technology Leadership</b>	<ol style="list-style-type: none"> <li>1. Become a core/strategic partner to at least one national lab for technology transfer</li> <li>2. Increase the average annual new ventures to three over the next five years</li> <li>3. Triple the Intellectual Property licensing income over the next five years</li> <li>4. Double the number of disclosures per year</li> <li>5. Drive the local entrepreneurial ecosystem by hosting and sponsoring an annual business competition and annual workshops for TEES researchers</li> </ol>