Do you…

enjoy taking apart an item and then putting it back together again?
like working with numbers, symbols, and ideas?
have the ability to add numbers in your head quickly and easily?
like to study and research space?
visualize drawings and designs in your head?

Prepare to launch an exciting career in STEM!

“To boldly go where no one has gone before” is the hallmark of human progress and the prevailing spirit of the Science, Technology, Engineering and Mathematics (STEM) cluster. Because technology is important to the growth of our country and the quality of future life on earth, employees in STEM careers are typically some of our nation’s highest wage earners. If you have the urge to figure out how things work and advance the frontiers of knowledge, a career in STEM might be right for you.

Fastest Growing Careers
• Computer Programmers
• Surveyors and Cartographers
• Environmental Science Technicians
• Data Scientists
• Engineering Technicians

Highest Paying Careers
• Petroleum Engineer $107,830
• Aerospace Engineer $129,990
• Marine Engineer $93,110
• Industrial Engineer $88,700
• Electrical Engineer $73,080

Careers to Consider
With a 4-Year College Degree and Higher:
Computer Software Engineer,
Database Administrator, Statistician,
Architectural Engineer, Chemical Engineer, Chemist

With a 2-Year College Degree:
Communications Technologist, Data Analyst Technician, CAD Operator, Industrial Engineer Technician, Laboratory Technician, Nuclear Technician, Research Technician
Recommended Pathway

<table>
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<tr>
<th>Engineering Project Lead the Way (THS)</th>
<th>Grade 9</th>
<th>Grade 10</th>
<th>Grade 11</th>
<th>Grade 12</th>
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<tr>
<td>Introduction to Engineering &amp; Design</td>
<td>Engineering Science</td>
<td>Civil Engineering and Architecture</td>
<td>Engineering Design and Problem-Solving Practicum in STEM</td>
<td></td>
</tr>
</tbody>
</table>

Please refer to the Pearland ISD Course Selection Handbook for more information on career pathways and endorsements, course requirements, and certification opportunities offered at each high school campus in the district.

CTE Spotlight: Project Lead the Way at Turner College & Career High School

By 2018, the U.S. will have more than 1.2 million unfilled jobs in the areas of science, technology, engineering, and math (STEM) because there will not be enough qualified workers to fill them. STEM is where jobs are today and where the job growth will be in the future.

Pearland ISD is proud to help meet this demand by offering students a series of courses using the Project Lead the Way© (PLTW) Engineering curriculum.

Project Lead the Way© offers a different approach to learning and teaching. Through activity, project, and problem-based curriculum, PLTW gives students a chance to apply what they know, identify problems, find unique solutions, and lead their own learning. When students understand how their education is relevant to their lives and future careers, they get excited, and that is why PLTW students are successful.

PLTW students gain knowledge and skills in the following STEM areas:

- Engineering design process
- Industry standard 3D modeling software
- Using an engineer’s notebook
- Mechanisms, energy, statics, materials, and kinematics
- Development of residential and commercial properties and structures
- Project research, testing and validation techniques

For more information:
Contact your campus counselor or call Career and Technical Education at 281.485.3203

Sources
Achieve Texas, College and Career Initiative
Labor Market and Career Information (LMCI), Texas Workforce Commission

Notice of Non-Discrimination: It is the policy of Pearland ISD not to discriminate on the basis of race, color, national origin, sex, handicap, or age in its employment practices as required by Title VI of the Civil Rights Act of 1964, as amended; Title IX of the Education Amendments of 1972; the Age Discrimination Act of 1975, as amended; and Section 504 of the Rehabilitation Act of 1973, as amended.