



Pathway to Career Success: Partnering with Industry to Grow a Future Workforce

San Jacinto College



Van Wigginton
Provost
Central Campus

About San Jacinto College

2017 Aspen Top 5 College
2019 Aspen Top 10 Finalist

San Jacinto College has a 57-year tradition of serving the communities of East Harris County

- 4 Campuses
- 40,000 credit students
- 6,000 noncredit

CPET Workforce Training
1966 - Chemical Processing
1976 - Process Technology





San Jacinto College Board of Trustees

Marie Flickinger, Chair
Keith Sinor, Secretary
John Moon, Jr.

Dan Mims, Vice Chair
Erica Davis Rouse, Asst Secretary
Dr. Ruede Wheeler

Larry Wilson

About San Jacinto College

San Jacinto College is in the hub of the industries that drive the Houston economy:

- **Petrochemical Manufacturing**
- Industrial Construction
- Health Care
- Oil and Gas
- Aerospace and Commercial Space Industry
- **Ports and Maritime**



San Jacinto College Petrochemical

1966 - Chemical Processing

1976 - Process Technology*

Instrumentation

Non Destructive Technology

*Successful programs with 2nd highest number of grads in USA



San Jacinto College Petrochemical

In 2010, the demand for workers began to grow.

- New plant sites and expanded operations at existing plants
- A retiring workforce
- \$50 billion dollar investment in our region
- Evident the college needed to invest also



The screenshot shows the Petrochemical Industry website. At the top, the logo reads "PETROCHEMICAL THRIVING GULF COAST INDUSTRY". Navigation links include "TYPES OF JOBS", "WHO IS HIRING", "WHERE TO GET TRAINING", and "ABOUT PETROCHEM". Below this is a yellow bar with "MY INTERESTS", "MY SKILLS", "MY EDUCATION", and a "SEE MY MATCHING JOBS" button. The main content area features a large image of a petrochemical plant with a semi-transparent box overlay. The box contains a person icon and the text "WHO IS HIRING Over 11,000 Job Openings in Petrochem".

Seeking Industry Input



Chancellor's Petrochemical Advisory Council

- Dow Chemical Company
- East Harris County Manufacturers Association (EHCMA)
- Economic Alliance – Houston Port Region
- INEOS
- Infinity – Wood Group
- ISC Constructors LLC
- Kaneka North America
- Kuraray America
- Lubrizol
- LyondellBasell
- R. Boeding Group LLC
- Rizzo & Associates
- Shell Deer Park
- Turner Industries
- Zachry Group



Chancellor's Petrochemical Advisory Council

- Agreed upon the need for new facility and agreed to support \$425 million bond
- When bond passed, stepped up to assist in design of building



Building a Team





- Advisory Council Input on Staff
- Strong Industry Ties
- Knowledge of Technical Needs
- Serve as Liaisons to Industry



Building Relationships

- Willingness to Listen





kuraray

kaneka

lyondellbasell

Lubrizol



INEOS

 **HUNTER**
BUILDINGS
Protected from the outside in.

ZACHRY

 **TURNER**
INDUSTRIES

Creating Facilities





Center of Petrochemical, Energy, and Technology



San Jacinto College **Petrochem**

SAN JACINTO
COLLEGE

CENTER FOR PETROCHEMICAL, ENERGY, AND TECHNOLOGY
COMING FALL 2019



SAN JACINTO
COLLEGE

CENTER FOR PETROCHEMICAL,
ENERGY, AND TECHNOLOGY

**GLYCOL-WATER
PROCESS TRAINING UNIT**

COMING FALL 2019



<https://www.youtube.com/watch?v=wofCE5l8ZOo>

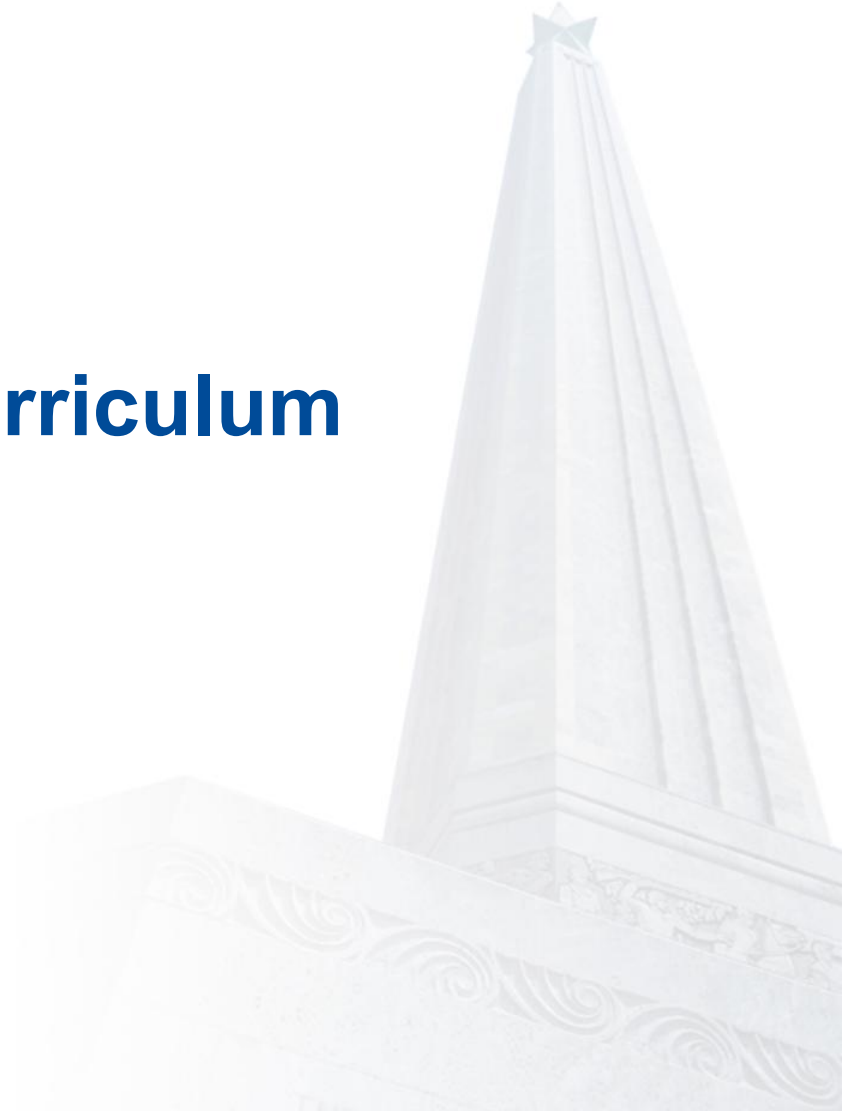
Program Specific Advisory Groups

Designed labs

Evaluated Curriculum



Building a Curriculum



Center for Petrochemical, Energy, and Technology



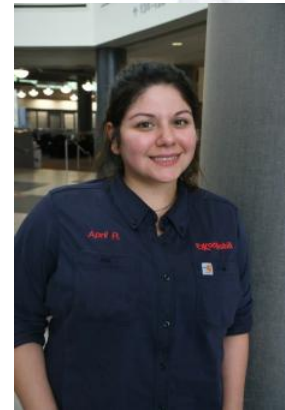
- Integrated Safety Culture
- Lab design based on Industry Input
- Curriculum Aligned with industry

Redesigning Curriculum

- Hands On Experience
- Composite Training
- Faculty Externships
- Student Internships



Student Voices



<https://www.bicmagazine.com/departments/hr/aug-2018-workforce-development-update/>

Creating Successful Career Paths



Changing Lives



Lessons Learned

Invested and Aware Board of Trustees

Industry Must Lead

Utilize a Respected Industry Consultant

Partners that Roll Up their Sleeves

Be open to New Ideas

Challenge the Status Quo



Building for the Future





www.sanjac.edu

