



U.S.-MEXICO ENERGY FORUM



UNITED STATES-MEXICO ENERGY FORUM  
“Opportunities and Challenges”  
HUMAN RESOURCES – CAPACITY NEEDS  
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*...need for qualified and experienced professional and technical-trade personnel.*

**Academic Professional Degrees**

**Technical Training Courses – Certificates**

**...ALONG THE ENERGY VALUE CHAIN:**

**UPSTREAM - MIDSTREAM – DOWNSTREAM**

**Oil & Gas - Petrochemicals - Electricity**



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*...the need for a qualified and experienced bureaucracy.*

Policy:

SENER – SHCP – SEMARNAT

Regulators:

CNH - CNIH - CRE - ASEA - CENEGAS - COFECE- CENACE



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## *...Mexico's academic institutional challenges.*

- Qualified Academic Programs and Curriculums.
- UNAM – IPN – ITESM 151-200 World Rankings.
- Qualified Faculty with Field Research Industry Experience.
- Weak industry-academia ties and alignment of the qualifications and training of its graduates with the needs of the energy sector.
- Language Competency .
- Culture as a result of 75 year industry monopoly.



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*...Texas academic institutions  
collaboration programs and initiatives.*

**Undergraduate and Graduate Scholarship Programs**

**Technical and Certificate Programs**

**Faculty Training and Exchanges**

**Joint Research Collaboration**

**English Language Education**

**Industry Support**



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# 1,043,839 international students in the U.S.

(IIE – 2015-2016 - THECB 2015)

#1 China	328,547	31.5%	57.6% Undergraduate	Engineering	20.8%	
#2 India	165,918	15.9%	24.9% Graduate	Business	19.2%	
#3 S. Arabia	61,287	5.9%	17.7% Other	Math – IT	13.6%	
#4 S. Korea	61,007	5.8%		Social Sciences	7.8%	
#5 Canada	26,973	2.6%	#1 California	10.5%	Phys. Life Sciences	7.2%
#6 Vietnam	21,403	2.1%	#2 New York	7.1%		
#7 Taiwan	21,127	2.0%	#3 Texas	8.7%		
#8 Brazil	19,370	1.9%				
#9 Japan	19,060	1.8%				
#10 Mexico	16,733	1.6%				

\$35.8 billion Contribution to U.S. Economy



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## *...Texas International – Mexico Student Profile*

*(IIE 2015 – THECB 2015)*

### 82,184 International Students

#1 India	24.1%	UT Dallas	8,145
#2 China	17.6%	Texas A&M	6,940
#3 Mexico	8.9%	UT Arlington	6,169
#4 Vietnam	5.2%	UT Austin	6,060
#5 S. Arabia	5.0%	Hou. Comm.	5,649

### 7,314 Mexican Students

#1 UT El Paso	1,242
#2 Lone Star College	1,227
#3 UT Pan American	562
#4 UT Austin	506
#5 UT San Antonio	206

\$1.9 billion Economic Contribution (Texas)

\$605 million Eco. Contribution U.S.