So you want to be a Chem–E

Presented by Lorenzo Mangubat
What is Chemical Engineering?

Chemistry  Physics

Math  Biology

ChemE

American Institute of Chemical Engineers–USC
What are your toys?

- Distillation Columns
- Heat Exchangers
- Pipes
- Flash Drums
- Absorbers and Strippers
- Reactors

American Institute of Chemical Engineers–USC
What are your classes?

Freshman
- ChE 120

Sophomore
- Thermo
  - Separations Processes

Junior
- Reactor Design/Analysis
- Momentum transfer
- lab

Senior
- Heat transfer
- Mass transfer
- Statistics/CAD
  - Process dynamics and control
  - Plant design

American Institute of Chemical Engineers–USC
Want to specialize?

- biochem
- Mat. Sci.
- emphasis
- nano
- Enviro.
- petroleum

American Institute of Chemical Engineers–USC
Who can you work for

- Petrol
  - Chevron
  - Exxon Mobil
- Biotech
  - Amgen
  - Medtronic
- Electronics
  - Intel
- Engineering
  - Jacobs
  - Arup
- Aerospace/Defense
  - Boeing
  - Northrop Grumman
- Power
  - GE
  - SoCal Edison

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Learn more!

The Catalyst Project
Created by AIChE-USC

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August 31, 2010

Idealab: http://www.idealab.com/

This past summer, I was lucky enough to secure an internship with the engineering department at Idealab in Pasadena, California. Idealab, the brainchild of CEO Bill Gross, is an incubator company that has created and operated more than 75 companies, primarily in the fields of clean technology, robotics, and the Internet. Some of the more successful progeny include CitySearch, NetZero, Picasa, and the .tv web suffix. Current operating companies include Aptera, which is competing in the Progressive Automotive X Prize, eSolar, which is delivering solar thermal generated power to Southern California homes, and Evolution Robotics, which is selling an automated floor-cleaning robot called Mint.

written by Anna Harley
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