



School of Aerospace & Mechanical Engineering  
College of Engineering

## *Baker Hughes 21st Century Co-Op Program*

The Baker Hughes 21st Century Co-Op at the University of Oklahoma School of Aerospace and Mechanical Engineering is a five year BS/MS degree program in mechanical engineering aimed at developing technical competencies and meta-competencies needed by engineers to hit the road running and succeed in the oil and gas industry. In addition to core courses in mechanical engineering, the curriculum includes customized courses jointly offered by company engineers and faculty during summer internships, a senior capstone experience and graduate theses that are of relevance to the sponsoring company, and graduate cross-disciplinary courses.

Four 21st Century Co-Op Scholars are chosen in the spring of their sophomore year. Selected students, the Baker Hughes Scholars (BHS), will work as a team with the BH Mentor (BHM) and the Faculty Mentor (FM) for three years. The Scholars have two mentors – one from the company and one from academia. BHS will intern at BHI during in the summers at the end of their Sophomore, Junior and Senior years.

- Sophomore internship - learn about BHI and identify project to be worked under FM supervision when they return to OU.
- Junior internship – continue to learn about BHI and take a course for credit that is taught jointly by BHI engineer and FM. Identify capstone project.
- Senior internship – take a course for credit that is taught jointly by BHI engineer and FM, plus identify and work on MS project.
- Fifth year at OU – Work on BHI MS project under supervision of FM and BHM / BHI engineers
- Fourth and fifth years: The BHS scholar degree plan that is jointly worked out by BHM/FM. Students will have opportunity to take customized courses
  - Three graduate courses from Petroleum Engineering
  - Graduate electives - Up to two graduate Industrial and System Engineering courses cross-listed with AME

### **Important Dates:**

**Application Deadline:** February 15, 2013 (Submit at FH 212 to Kate O'Brien)

**Interview with Baker Hughes:** March 1-March 10, 2013

**Selection Decision:** March 15, 2013

### **For More Information Contact:**

Professor Farrokh Mistree <farrokh.mistree@ou.edu>

Professor Zahed Siddique <zsiddique@ou.edu>

# Baker Hughes 21st Century Co-Op Application

Applicant: \_\_\_\_\_  
Last Name First Name Middle Initial

Mailing Address: \_\_\_\_\_  
Street Address Apt No.  
\_\_\_\_\_  
City State Zip Code

Telephone: (\_\_\_\_) \_\_\_\_ - \_\_\_\_\_

E-mail: \_\_\_\_\_

Academic Course Hours Completed: \_\_\_\_\_ Current GPA: \_\_\_\_\_ Major: \_\_\_\_\_

Currently Enrolled Course Hours: \_\_\_\_\_ Expected Graduation Date: \_\_\_\_\_

Internships: \_\_\_\_\_

List all activities for the areas below. Include any offices held and the year serving in those offices. If you have undertaken internships in industry or research internships with faculty please cite these and share what you gained from these internships.

You may attach a separate page if more room is needed. Please type, print legibly, or complete electronically all information.

## Honorary Organizations:


## Scholarships and Awards:


## University Organizations and Professional Societies:


## College or Departmental Organizations:


## Extra-curricular Activities:


## Work Experience and Community Service:


