

Montana State University – Bozeman
Chemical Engineering Department
College of Engineering

EMPLOYER SURVEY

1. Your Name: _____ Title or Position: _____

2. Name of Your Company: _____

3. Approximately how many Montana State University chemical engineering (CHE) graduates work in your organization? _____

4. In what areas are these Montana State University CHE graduates employed in your company? Please check all that apply.

<input type="checkbox"/> Design	<input type="checkbox"/> Manufacturing	<input type="checkbox"/> Programming	<input type="checkbox"/> Production Operations
<input type="checkbox"/> Scheduling	<input type="checkbox"/> Maintenance	<input type="checkbox"/> Training	<input type="checkbox"/> Methods Improvement
<input type="checkbox"/> Sales	<input type="checkbox"/> Other Processes	<input type="checkbox"/> Purchasing	<input type="checkbox"/> Quality Assurance
<input type="checkbox"/> Management	<input type="checkbox"/> Finances	<input type="checkbox"/> Other: (Please specify) _____	

5. How many years have you employed Montana State University CHE graduates? _____

6. How have Montana State University CHE graduates compared with CHE graduates from other colleges or universities?

Outstanding Better than Average Average Below Average

7. Based on the competencies you see in our graduates, which areas should we emphasize in the Montana State University CHE program? Please rank as follows: 1= “increased emphasis”, 2 = “same emphasis”, and 3 = “decreased emphasis”.

SPECIFIC

Basic and Advanced Chemistry
 Material Balances Applied to Chemical Processes
 Energy Balances Applied to Chemical Processes
 Thermodynamics of Physical and Chemical Equilibria
 Heat, Mass, and Momentum Transfer
 Chemical Reaction Engineering
 Continuous and Stage-Wise Separation Operations
 Process Dynamics and Control
 Process Design
 Mathematics
 Experimental Techniques
 Computer Techniques
 Safety
 Environmental
 Other: Specify: _____

GENERAL

Laboratory Skills
 Professional Ethics
 Comm. Skills & Technical Writing
 Other: Specify: _____

8. Are there areas not listed, that we should introduce into the CHE curriculum? _____

9. What areas and roles will be needed in the future for CHE grads? _____

10. Compare the strengths and weaknesses of our graduates, who are your employees, relative to their peers from other universities.

		Strong	Average	Poor	Not Applied
A.	Rank strength of Basic Science and Engineering competence in:	---	---	---	---
	•Mathematics				
	•Basic Chemistry				
	•Advanced Chemistry (e.g., organic, biochem., physical, env.)				
	•Physics				
	•Computing				
	•Material Science				
B.	Rate ability to perform:	---	---	---	---
	•Material Balances				
	•Energy Balances				
	•Thermodynamic Calculations				
	•Heat, Mass, and Momentum Transfer Calculations				
	•Reaction/Kinetic Calculations				
	•Experimental Methods				
C.	Rank education for designing & implementing:	---	---	---	---
	•Computer Process Control Systems				
	•Process or Production Systems				
	•Continuous and Stage-wise Separation Systems				
	•Engineering Economic Analyses				
	•Quality Control Systems				
	•Engineering Statistical Analyses				
D.	Rate ability to handle various multidisciplinary activities in:	---	---	---	---
	•Process Design				
	•Project Management				
	•Production Management				
E.	Rate ability to solve engineering problems:				
F.	Regarding ethical/professional issues for engineering practice:	---	---	---	---
	•Competence in handling ethical issues?				
	•Sensitivity to social issues and people problems at work.				
G.	Rate ability to communicate effectively by:	---	---	---	---
	•Interaction with other employees and management				
	•Presentation of projects				
	•Requests for and dissemination of information				
	•Training of other employees				
H.	Rank understanding of global/social responsibilities:				
I.	Rank dedication to obtaining continuous life-long learning by:	---	---	---	---
	•Attending professional seminars, workshops, or training programs				
	•Pursuing an advanced degree or professional certification				
J.	Rate the knowledge gained on issues such as pollution, safety, etc:				
K.	Rate ability to:	---	---	---	---
	•Prepare instructional materials for process or unit				
	•Analyze/troubleshoot processes				
	•Manage people and resources				

Thank you for participating in this survey. Please return your completed survey form in the enclosed envelope to: Dr. Ron Larsen, Head, Chemical Engineering Department, 306 Cobleigh Hall, Montana State University, Bozeman, MT 59717-3920.