



**Survey For BS Alumni (Recent graduates)
Mining Engineering**

**Return to The College of Engineering
University of Arizona, 200 Engineering Building,
Tucson, AZ, 85721, or FAX to (520) 621-9995.
Please respond by July 1, 2005.**

Dear Alum:

To improve the effectiveness of our undergraduate mining engineering degree, the Department of Mining and Geological Engineering has developed a continuous improvement process. One of the key portions of this process is program assessment. To this end, we need your help with the following questions. Thank you in advance for your cooperation in this important matter.

Name: «First_Name_» «Mid_Initial» «Last_Name»_

Graduation semester/year: «Graduatedsem_year» **Department/Degree:** «Major»

List any other degrees or training obtained since receiving your bachelors degree:

Degree/training	University/Department	Date
_____	_____	_____
_____	_____	_____
_____	_____	_____

Current Position Company: _____

 Address: _____

 City, State, Zip Code _____

 Title: _____

 email: _____

 Phone: _____

 Responsibilities: _____

Previous positions in the past five years

Company: _____ Title: _____

Company: _____ Title: _____

What Professional Societies do you participate in?

Society: _____ Level of participation _____

Society: _____ Level of participation _____

Based on your experiences in the Department of Mining and Geological Engineering, please respond to the following by circling the most appropriate number. Thank you in advance for your honesty in sharing your feelings.

A. How satisfied were you with your education in the College of Engineering at

The University of Arizona in helping your ability to:	highly		medium		unsatisfied
1. Apply appropriate mathematics to engineering problems	5	4	3	2	1
2. Apply physics to engineering problems	5	4	3	2	1
3. Apply chemistry to engineering problems	5	4	3	2	1
4. Understand contemporary issues?	5	4	3	2	1

B. To what degree did your engineering education enhance your ability to

	high		moderate		not at all
1. Analyze and interpret data?	5	4	3	2	1
2. Design experiments?	5	4	3	2	1
3. Conduct experiments?	5	4	3	2	1
4. Function on multidisciplinary teams?	5	4	3	2	1
5. Formulate engineering problems?	5	4	3	2	1
6. Solve engineering problems?	5	4	3	2	1
7. Understand ethical responsibilities of an engineer?	5	4	3	2	1
8. Understand the impact of engineering solutions in a global context?	5	4	3	2	1
9. Communicate via oral reports?	5	4	3	2	1
10. Communicate via written reports?	5	4	3	2	1
11. Recognize the need to engage in lifelong learning?	5	4	3	2	1
12. Design a system, component, or process to meet a need?	5	4	3	2	1

C. To what degree did your design experience at the university

1. Build on knowledge from previous coursework?	5	4	3	2	1
2. Incorporate engineering standards?	5	4	3	2	1
3. Address economic issues?	5	4	3	2	1
4. Address environmental issues?	5	4	3	2	1
5. Address health and safety issues?	5	4	3	2	1
6. Address socio/political issues?	5	4	3	2	1
7. Use techniques, skills, and tools encountered in modern engineering practice.	5	4	3	2	1

D. To what degree did laboratory experiences at the university

1. Correlate with lecture courses?	5	4	3	2	1
2. Allow you to learn to use modern tools in your field?	5	4	3	2	1
3. Enhance your understanding of basic operations or phenomena in your field?	5	4	3	2	1

E. To what extent did your mining engineering education prepare you to:

1. Tie the first principles of engineering with computer-based solutions to validate computer output; understand the difference between theoretical and practical solutions.	5	4	3	2	1
2. Can conduct economic and risk analyses; understand a business plan and responsibilities to customers, stockholders, and stakeholders.	5	4	3	2	1
3. Can stay current with technology and industry practices.	5	4	3	2	1
4. Can effectively communicate with peers, front-line workforce, and management; possess the skills to be a team player.	5	4	3	2	1
5. Takes safety and environmental concerns into consideration in designs.	5	4	3	2	1
6. Can understand the human and social elements of a mining operation and its importance, dynamics, and sensitivity to internal stimuli as it drives the safety, costs, and productivity of the operation.	5	4	3	2	1
7. Possess the ability to organize, plan, and schedule projects to effectively manage resources and reach deadlines.	5	4	3	2	1

G. Did your department experience meet your career needs? 5 4 3 2 1

What would you have changed? _____

H. What have you learned on the job that you feel should have been included in your formal education?

I. Do you feel that at graduation you were adequately prepared for

- | | | |
|----------------------------------|-----|------------------|
| 1. initial career employment | yes | no. (circle one) |
| 2. graduate study in your field? | yes | no |

Salary is the first question asked in our recruiting efforts. Your consideration to provide your starting salary and your current salary range would greatly assist us in advising current students as well as in our recruiting efforts:

<u>Starting Salary</u>	<u>Current Salary</u>
25 – 29,000	25 – 29,000
30 – 34,000	30 – 34,000
35 – 39,000	35 – 39,000
40 – 44,000	40 – 44,000
45 – 49,000	45 – 49,000
49 – 54,000	49 – 54,000
54,000 +	54,000 +

Based on advice from our Industry Leadership Board, we are revising our mining engineering curriculum to include tracks in geomechanics with a focus on heavy/underground construction and sustainable resource development with a focus on environmental permitting and remediation in addition to a revised mine operations track that includes individual courses in surface and underground mine design, mine planning software, and senior design. Our board has recommended changing the name of the degree to Mineral Resource Engineering to reflect the broader curriculum. If you would like to provide any comments on these changes please feel free to do so or to contact the department with contacts.

Additional comments: _____

May we quote you in our evaluation report?

Please circle one (yes no).

May we contact you for further information?

Please circle one (yes no).