



Department of Civil Engineering and Surveying University of Puerto Rico Mayagüez Campus



EMPLOYERS SURVEY Year 2002

Company/Agency Name: _____

Address: _____

Name of person responding to this Survey: _____ Phone: _____

Title/Position: _____ Years with Company: _____

Please, indicate the Professional Background of the person responding to this survey:

_____ Civil Engineer (CE) _____ Engineer other than CE _____ Other

Have you or your Company/Agency employed graduates of the Civil Engineering Program at UPR-Mayagüez, on or during the past 5 years? _____ YES _____ NO

*[If your answer is **NO** ... end this Survey right here, but please return your response to us in the self-addressed envelope provided for that purpose. Thank you for your cooperation.]*

Please, indicate the number of engineers employed by your Company/Agency, that graduated during the past 5 years from the Civil Engineering Program at UPR-Mayagüez, and that are considered in responding to this Survey:

Evaluation of Employer Satisfaction with the Civil Engineering (CE) Graduate of the University of Puerto Rico - Mayagüez

Instructions: Based on your employer/supervisory experience, use the following scale to indicate your assessment of our graduates' performance:

1 - Very dissatisfied 2 - Dissatisfied 3 - Satisfied 4 - Somewhat more than satisfied
5 - Expectations surpassed N/A - Not Applicable or Not Able to Answer

	More <== Satisfaction == >Less					N/A
	5	4	3	2	1	
1. Can they understand and apply the following knowledge?						
a. Mathematics (through differential calculus)						
b. Probability and statistics						
c. General chemistry						
d. Calculus based physics						
e. Other sciences						
2. Are they proficient in the following major civil engineering areas?						
a. Structures and Materials						
b. Geotechnical						
c. Environmental						

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	5	4	3	2	1	N/A
d. WaterResources						
e. Transportation						
f. Construction Management						
3. Can they conduct laboratory experiments and critically analyze and interpret data in the following areas?						
a. Structures and Materials						
b. Geotechnical						
c. Environmental						
d. Water Resources						
e. Transportation						
f. Construction Management						
4. Can they design civil engineering systems, components or processes?						
a. Systems						
b. Components						
c. Processes						
5. Which of the following skills, tools and techniques needed for civil engineering practice are they proficient in?						
a. Oral communication skills in Spanish						
b. Written communication skills in Spanish						
c. Oral communication skills in English						
d. Written communication skills in English						
e. Drawing skills for communicating engineering ideas						
f. Use of computers, internet, word processing, spreadsheet, database programs						
g. Probability and statistics						
h. Computer programming						
i. Participation in professional organizations						
j. Professional laws, regulations and ethics codes						
k. Application of computer professional programs to solve civil engineering problems						
l. Knowledge of how to obtain information on laws, regulations and construction codes affecting the practice of civil engineering.						
m. Stress management						
n. Values						
o. Coordination / Meeting skills						
p. Critical thinking						
6. Can they work in a collaborative multi-disciplinary professional work group assuming the following roles when needed?						
a. Leader						
b. Follower						
c. Parliamentarian						
d. Time-manager						
e. Recorder (note-taker)						

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	5	4	3	2	1	N/A
7. Can they :						
a. Identify civil engineering problems?						
b. Formulate civil engineering problems?						
c. Solve civil engineering problems?						
8. Can they understand professional practice and ethical responsibility issues such as:						
a. Procurement of work.						
b. Bidding versus quality – based selection processes.						
c. How the design and construction professionals interact to construct a project.						
8. The importance of professional licensure and continuing education.						
e. Other professional, social, and moral issues.						
9. Do you feel they have the broad education necessary to understand the impact of engineering solutions on contemporary issues such as:						
a. Health						
b. General welfare						
c. Safety						
d. Environmental quality						
e. Economy in a global/societal context						
10. Are they committed to engage in lifelong learning throughout all of their professional life?						
a. Continuing education courses						
b. Undergraduate level courses in addition to degree						
c. Graduate courses						
d. Professional seminars						
e. Professional society annual conferences						
f. Membership in professional societies						
g. Technical publications						
h. Independent learning						
11. Do they participate in the following lifelong learning activities?						
a. Social						
b. Cultural						
c. Economic						
d. Artistic						
e. Ethical						
f. Environmental						
g. Engineering						
12. Do they have the managerial and entrepreneurial skills needed to solve civil engineering problems?						
13. Are you satisfied with their education at UPRM?						
14. Are you satisfied with the quality of teaching they received at the UPRM Civil Engineering and Surveying Department?						

