

Engineering Professional Responsibility Assessment Pre-

Definitions:

Community Service is voluntary work intended to help people in a particular community.

Social Responsibility is an obligation that an individual (or company) has to act with concern and sensitivity, aware of the impacts of their action on others, particularly the disadvantaged.

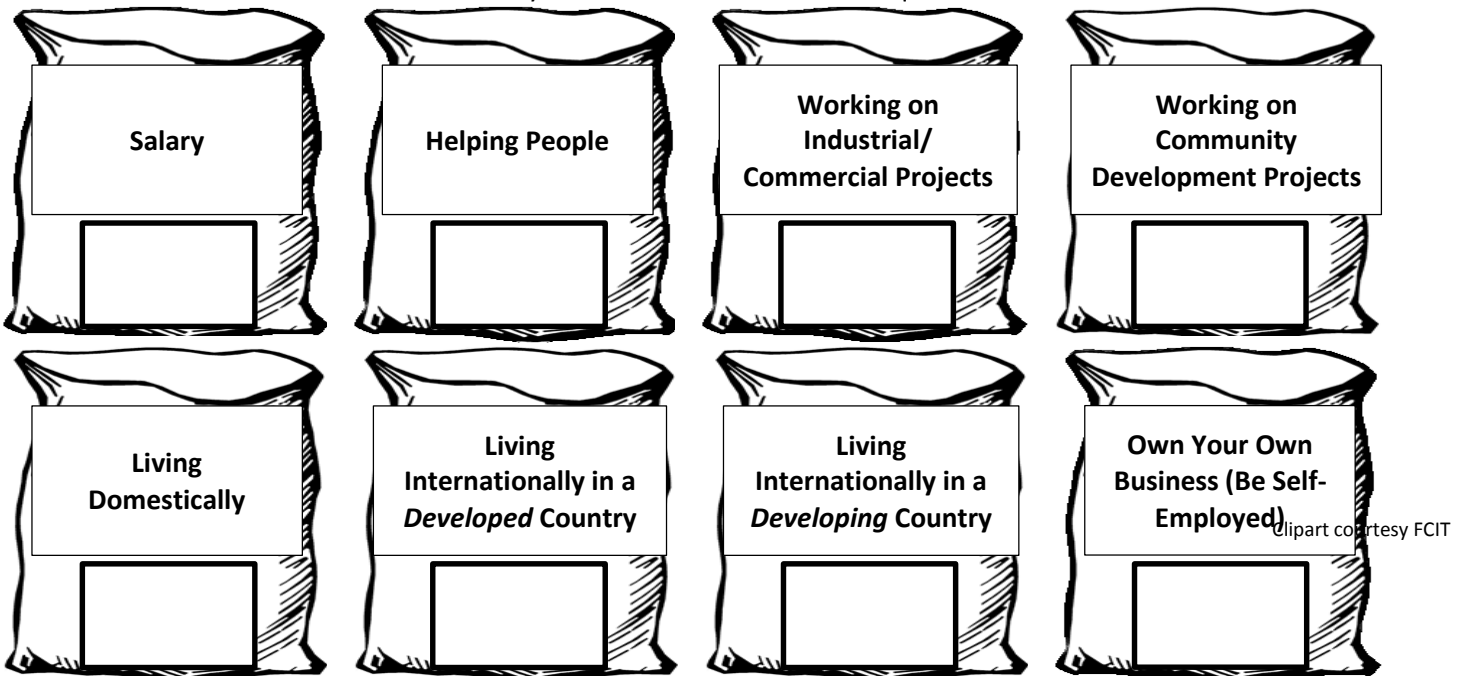
Social Justice relates to the distribution of the advantages and disadvantages in society, including the way in which they are allocated.

pro bono - Work done without compensation (pay) for the public good

Please rate how important the following skills are for a professional engineer using the following scale:

	1	2	3	4	5	6	7
	Very Unimportant	Unimportant	Slightly Unimportant	Neutral	Slightly Important	Important	Very Important
Fundamental Skills (i.e. Math & Science)	1	2	3	4	5	6	7
Technical Skills (i.e. Conducting Experiments, Data Analysis, Design, Engineering Tools, & Problem Solving)	1	2	3	4	5	6	7
Business Skills (i.e. Business Knowledge, Management Skills & Professionalism)	1	2	3	4	5	6	7
Professional Skills (i.e. Communication, Contemporary Issues, Creativity, Leadership, Life-Long Learning, & Teamwork)	1	2	3	4	5	6	7
Cultural Awareness/Understanding (i.e. of your culture, and those of others)	1	2	3	4	5	6	7
Ethics (i.e. ensuring all of your work follows professional codes of conduct)	1	2	3	4	5	6	7
Societal Context (i.e. how your work connects to society and vice versa)	1	2	3	4	5	6	7
Volunteerism (for professional and personal reasons)	1	2	3	4	5	6	7

Future Job Qualities: Below there are 8 bins with different job qualities on them. You have 10 stones to distribute among the bins to mark which qualities are important to you when thinking of your future engineering job. You may place multiple stones in any bin, but you must place exactly 10 stones in total and no fractional stone distributions are allowed. Write your number of stones in the square on each bin.



Rate the level to which you agree/disagree with the following statements using the following scale:

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Slightly Disagree	Neutral	Slightly Agree	Agree	Strongly Agree

Engineers have contributed greatly to fixing problems in the world	1	2	3	4	5	6	7
I would <i>not</i> change my engineering design because it conflicted with community feedback	1	2	3	4	5	6	7
Volunteer experience(s) have changed the way I think about spending money	1	2	3	4	5	6	7
It is important to me personally to have a career that involves helping people	1	2	3	4	5	6	7
Engineering skills are <i>not</i> useful in making the community a better place	1	2	3	4	5	6	7
It is important for engineers to consider the potential broader impacts of technical solutions to problems	1	2	3	4	5	6	7
Service should <i>not</i> be an expected part of the engineering profession	1	2	3	4	5	6	7
I would be willing to have a career that earns less money if I were serving society	1	2	3	4	5	6	7
I will use engineering to help others	1	2	3	4	5	6	7
I view engineering and community service work as unconnected	1	2	3	4	5	6	7
I feel called to serve others through engineering	1	2	3	4	5	6	7
The needs of society have no affect on my choice to pursue engineering as a career	1	2	3	4	5	6	7
It is important to incorporate societal constraints into engineering decisions	1	2	3	4	5	6	7
Technology does <i>not</i> play an important role in solving society's problems	1	2	3	4	5	6	7
My engineering skills are strengthened through participation in engineering service opportunities	1	2	3	4	5	6	7
I feel called by the needs of society to pursue a career in engineering	1	2	3	4	5	6	7
Engineering firms should take on some <i>pro bono</i> work	1	2	3	4	5	6	7
I doubt that volunteer work will ever have much affect on my career	1	2	3	4	5	6	7
I think it is important to use my engineering to serve others	1	2	3	4	5	6	7
Engineers can have a positive impact on society	1	2	3	4	5	6	7
Knowing that my engineering career is helping others would <i>not</i> increase my personal satisfaction	1	2	3	4	5	6	7
Engineers should use their skills to solve social problems	1	2	3	4	5	6	7
It is important to use my engineering abilities to provide a useful service to the community	1	2	3	4	5	6	7
I believe that I will be involved in social justice issues for the rest of my life	1	2	3	4	5	6	7
I do <i>not</i> think it is important to use engineering to serve the greater community	1	2	3	4	5	6	7
I believe my life will be positively affected by the volunteering	1	2	3	4	5	6	7

that I do

Rate the level to which you agree/disagree with the following statements using the following scale:

1	2	3	4	5	6	7
Strongly Disagree	Disagree	Slightly Disagree	Neutral	Slightly Agree	Agree	Strongly Agree

I can make a difference in my community	1	2	3	4	5	6	7
There are <i>not</i> communities in America that need help	1	2	3	4	5	6	7
I think people who are more fortunate in life should help less fortunate people with their needs and problems	1	2	3	4	5	6	7
I believe that extra time spent on community service is worthwhile	1	2	3	4	5	6	7
It is <i>not</i> my responsibility to do something about improving society	1	2	3	4	5	6	7
I believe it takes more than time, money, and community efforts to change social problems: we also need to work for change at a national or global level	1	2	3	4	5	6	7
Community groups need our help	1	2	3	4	5	6	7
There are <i>not</i> people in the community who need help	1	2	3	4	5	6	7
I can have an impact on solving problems that face my local community	1	2	3	4	5	6	7
It is important to me to have a sense of contribution and helpfulness through participating in community service	1	2	3	4	5	6	7
Please mark "3" if you are reading this question	1	2	3	4	5	6	7
It is my responsibility to take some real measures to help others in need	1	2	3	4	5	6	7
I feel an obligation to contribute to society	1	2	3	4	5	6	7
The people who benefit from my volunteer activities do <i>not</i> have anything to offer me	1	2	3	4	5	6	7
There are people who have needs which are not being met	1	2	3	4	5	6	7
My contribution to society will make a real difference	1	2	3	4	5	6	7
I believe that the causes of most social issues are fairly easy to identify	1	2	3	4	5	6	7
I think I should help people who are less fortunate with their needs and problems	1	2	3	4	5	6	7
I <i>cannot</i> have an impact on solving problems that face underserved communities internationally	1	2	3	4	5	6	7
I am starting to realize that many volunteer organizations simply put "band aids" over social problems, rather than change them	1	2	3	4	5	6	7
There are needs in the community	1	2	3	4	5	6	7

Rate the frequency that you have engaged in any of the following community service activities since beginning college, using the following rating scale [or before coming to college if you are an incoming first year student]:

0	1	2	3	4	5	
Have not Participated	Once	Twice	More than Twice but not routinely	Monthly	Weekly	
Habitat for Humanity Build	0	1	2	3	4	5
Tutoring elementary or secondary children	0	1	2	3	4	5
Tutoring college students (unpaid)	0	1	2	3	4	5
Donated Blood	0	1	2	3	4	5
In Class Service Learning Project (i.e. service oriented capstone project)	0	1	2	3	4	5
Engineers without Borders (EWB) or Engineers for a Sustainable World (ESW) Project	0	1	2	3	4	5
Short term on-site service project (i.e. Spring Break Service trip, EWB/ESW in-country work)	0	1	2	3		
Disaster Relief Volunteer	0	1	2	3		
International Humanitarian Volunteer: (Specify) _____	0	1	2	3		
Food Bank Volunteer	0	1	2	3	4	5
Meals on Wheels Volunteer	0	1	2	3	4	5
Nursing Home Volunteer	0	1	2	3	4	5
Political Campaign Volunteer	0	1	2	3	4	5
Big Brother/Big Sister, Boys & Girls Club, Boy/Girl Scouts	0	1	2	3	4	5
Soup Kitchen Volunteer	0	1	2	3	4	5
Other: _____	0	1	2	3	4	5

If you were to volunteer, or have volunteered with an organization since coming to college, please specify why you would/did (check all that apply):

- | | |
|--|--|
| <input type="checkbox"/> Required for class | <input type="checkbox"/> To gain new skills |
| <input type="checkbox"/> I went with a friend | <input type="checkbox"/> To meet new people |
| <input type="checkbox"/> Because of my religious beliefs | <input type="checkbox"/> To build my resume |
| <input type="checkbox"/> Makes me feel good | <input type="checkbox"/> For an international experience (to travel) |
| <input type="checkbox"/> To help others | <input type="checkbox"/> Other: _____ |
| <input type="checkbox"/> With my Fraternity/Sorority | |

Are there factors that currently or have previously limited/inhibited your participation in volunteer activities (check all that apply):

- | | |
|---|--|
| <input type="checkbox"/> Lack of time due to course work | <input type="checkbox"/> Not interested in volunteering |
| <input type="checkbox"/> Lack of time due to extracurricular activities | <input type="checkbox"/> My friends do not participate in volunteer activities |
| <input type="checkbox"/> Lack of time due to work obligations | <input type="checkbox"/> Previous negative experience(s) with volunteering |
| <input type="checkbox"/> Family obligations | <input type="checkbox"/> Financial limitations |
| <input type="checkbox"/> Health restrictions | <input type="checkbox"/> None |
| <input type="checkbox"/> Don't know where to volunteer/how to be | <input type="checkbox"/> Other: _____ |

connected with a volunteer opportunity

Briefly describe any events that have influenced your views of community service and social responsibility.

Would you be willing to be contacted to participate in an hour long follow-up interview related to this research and survey results? Yes No

Demographic Information

Gender	Male			Female	
Age:	<18	18-20	21-23	24-28	>28
Engineering Major or intended major:	Civil Other: _____	Environmental		Mechanical	Open
College rank:	Freshman	Sophomore	Junior	Senior	Graduate
Cumulative GPA:	<2.5	2.5-3.0	3.0-3.5		3.5-4.0
Race or ethnicity:	African American		Hispanic		Asian
	Native American		Non-Hispanic White		Multiracial
	Other: _____				
Previous Engineering Work Experience:	None	Summer or Part Time Internship/Co-term		Full Time Employment: For _____ year(s)	
Are you in the first generation of your family to attend college?	Yes			No	
How would you describe your religious preference?	Religious, affiliated with an organized religion (i.e. Christian, Muslim, Jewish, Hindu, Buddhist, etc.)		Spiritual but not affiliated with an organized religion (i.e. Humanist, Agnostic, etc.)		Atheist
	Indifferent or not religious				
[if religious checked above] How active do you consider yourself in the practice of your religious preference?	Very active	Somewhat active	Not very active	Not active	Does not apply/Prefer not to say