

Preparation for a Career in Humanitarian Engineering



Step 1 – University studies

- Take courses on humanitarian issues (history, sociology, law, political science)
- Associate with faculty interested in humanitarian aspects of engineering
- Participate in student organizations involved in humanitarian-related issues
- Enroll in an engineering program that supports technologies for peaceful application

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Step 2 – Experience through Volunteering

- Student-run organizations
 - Engineers Without Borders
 - Engineers for a Sustainable World
- National NGOs
- International NGOs (CARE, World Vision, CRS)
- Church-related operations
- Intern programs
- Peace Corps

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Step 3 – Professional Opportunities

Academic track

- Teaching and research
- Working with students
- Development of curricula

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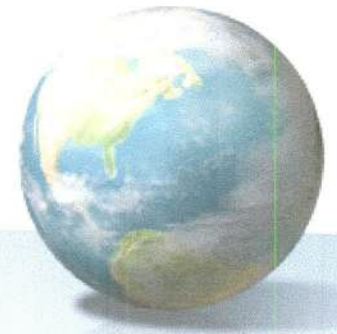
Step 3 – Professional Opportunities (cont.)

Operational track

- Federal government (USAID, OFDA, EPA, FEMA)
- State and local governments
- United Nations (UNICEF, UNDP, WHO)
- International NGOs (CARE, World Vision, CRS)
- Advocacy organizations (Sierra Club, WWF, etc)

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Career Phases



Age	Emphasis
20's	Learning
30's	Technical
40's	Management
50's	Policy
60's	All of the above
The future	To be determined

Examples of Humanitarian Emergencies



- Ethiopia (1984-85)
 - Iraq (1991)
 - Rwanda (1994)
 - Kosovo (1999)
 - Gujarat, India (2001)
 - Israel/Palestine (2002)
 - Iraq (2003)
 - Darfur, Sudan (2004)
 - Aceh, Indonesia (2004)
 - Niger (2005)
 - Pakistan (2005)
 - Haiti (2010)
- famine
 - Gulf War
 - genocide
 - international war
 - earthquake
 - intifada
 - international war
 - genocide
 - tsunami
 - drought
 - earthquake
 - earthquake