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

Preparation for a Career in Humanitarian Engineering

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)
## Career Phases

<table>
<thead>
<tr>
<th>Age</th>
<th>Emphasis</th>
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<tbody>
<tr>
<td>20’s</td>
<td>Learning</td>
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<td>30’s</td>
<td>Technical</td>
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<td>40’s</td>
<td>Management</td>
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<td>50’s</td>
<td>Policy</td>
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<tr>
<td>60’s</td>
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<td>The future</td>
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Examples of Humanitarian Emergencies

- Ethiopia (1984-85)
- Iraq (1991)
- Rwanda (1994)
- Kosovo (1999)
- Gujarat, India (2001)
- Israel/Palestine (2002)
- Iraq (2003)
- Darfur, Sudan (2004)
- Niger (2005)
- Pakistan (2005)
- Haiti (2010)

- famine
- Gulf War
- genocide
- international war
- earthquake
- intifada
- international war
- genocide
- tsunami
- drought
- earthquake