# **Employer Roles**

#### **Promoting career awareness**

Foster communication & engagement between employers & academia

- Alumni, alumni boards, local/regional employers
  - External speakers for talks, seminars, classes real-world perspectives, applications, career opportunities
  - Short or mock interviews & discussion of current members of workforce their jobs - online or in person
  - Talks by returning interns about experiences, corporate culture, values
  - Take advantage of opportunities some contractors for federal agencies must spend certain amount of their budget on engaging with institutions

### **Promoting career awareness**

#### **Collaboration and expectation setting**

- Provide advice on skills needed for employment, assistance & resources
- Clear communication about work culture and expectations
  - What skills you are expected to have; which skills you will gain during employment
- Manage cultural/language issues of prospective employees
- Employers that target specific schools should be clear with departments & students on what they are looking for in new employees
- Companies/industry/agencies that support research at an academic institution should provide recommendations for training in certain areas or internships

## **Employer Roles**

- Internship Experiences
  - Critical entry points for graduates into companies & agencies
  - Companies/agencies should partner with academic institutions
  - Need to raise awareness of opportunities & importance for employment
  - Need more mentoring during internships, final assessment & feedback to departments
  - Faculty should encourage students to do internships
  - Develop countermeasures for students doing internships increases time to graduation
    - need release time to allow career development; role of online courses?
- Other career experiences
  - Externships (with/without academic credit), shadowing
  - Company, government agency/lab, site visits, field excursions
  - Participation in Career Fairs/Days

### **Employer Roles in Education**

#### Employers provide course content

- Project ideas or datasets for real-world cost/benefit/risk projects
- Employer evaluation & feedback, mentoring

#### Teaching

- Company employees & retirees teach classes
- Joint courses using curriculum/internal training for interns & new employees or continuing education for employees; online or in person
- Experiential learning opportunities co-lead and co-teach field trips
- Sponsor short-courses
- Adjunct lecturers from private sector co-taught courses, seminars, etc.
- Online courses that can be connected across institutions for training purposes; online dissemination; continuing education

#### Financial support

- Direct contract to fund a student for advanced degree, partnerships, forming a research consortium
- Financial aid and scholarships to universities philanthropy
- Funding field camps or trips employees participate in the camps gives experiential opportunities for both employer and students

### **Opportunities for Involvement**

- Help students decide whether their career goals are better met with a Masters or Ph.D.
- Work with faculty to integrate professional skills into their teaching approach
  - Hire an education specialist to work directly with faculty to adapt their teaching style and approach
- Work with faculty to revise curricula to incorporate training in professional skills
- Assist with team-based cross-disciplinary, longer-term projects for student groups to work on together (e.g. Imperial Barrel)
- Provide career counselors/advisors with training to provide more uniform guidance on nontechnical, professional skills
- Provide funding for training programs in data analytics, machine learning, Al