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#### Six-Year Trends at ACS Job Fairs STIFF COMPETITION At ACS job fairs, job seekers still outnumber openings TOTAL POTENTIAL INTERVIEWS CANDIDATES EMPLOYERS OPENINGS SCHEDULED 1.296 Employment Clearing House officially became ling with the Philadelphia meeting. SOURCE: ment of Career Management & Development 289 1.751 E ACS



# Trends in Industry Job Market



- Focus on cost reduction and "core competencies"
- Selling off unprofitable businesses
- Increased outsourcing of R&D and other functions
- Reliance on contract workers
- Fewer "layers" in organizations; more leveraging resources
- Heightened attention to domestic and international competition
- Focus on quality, customer service, inventory control and innovation
- Manufacturing is being globalized
- Shortened product life cycles
- Increased emphasis on cross-functional collaboration
- Increased requirement for communication and non-technical skills



### **Hire Chemists** Types of Industrial Companies that



- · Foods pet foods, added we
- Coatings and adhesives
- Process manufacturing of all kinds

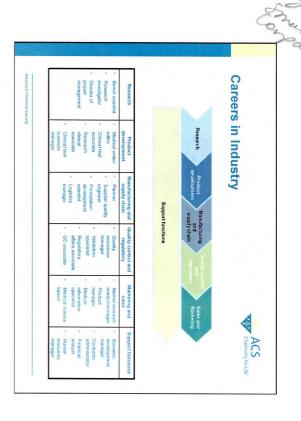
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# Research in Industry: Types and Spending



- Basic Research (\$9 billion)
- 7+ years before commercialization
- Advance scientific knowledge, without specific commercial objectives
- Applied Research (\$41 billion)
- Results expected in 4-7 years
- Discover new scientific knowledge that has specific commercial objectives
- Product Development (\$169 billion)
- In the marketplace in 1-3 years
- Use research findings for the production of useful materials, devices, systems, etc.







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### a Career in Industry **Advantages and Disadvantages of**



#### Advantages

- More job openings than in other pathways
- Good salaries generally
- Variety of career options within a given company howard What else?
- What else?

#### Disadvantages

- Less job security than academic or governmental pathways
- Sometimes relocation is required

### What Counts in Industry

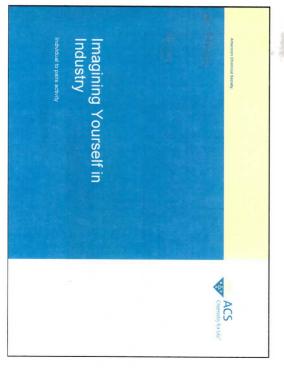


- Technical competence (the six
- Depth and breadth
- Ability to define and solve problems

Often companies are looking for people with postdoctoral experience

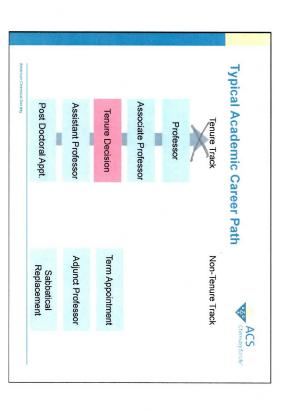
- Leadership/motivating others
- Working hard and working smart
- Ability to communicate orally and in writing, and influence others
- Ability to work well in teams
- Interactions with people of diverse backgrounds
- Ethical behavior and personal integrity

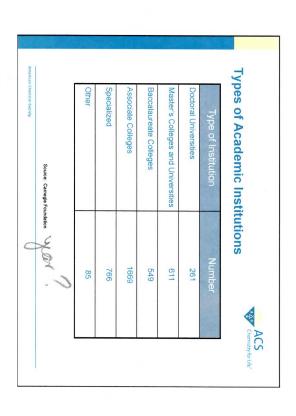


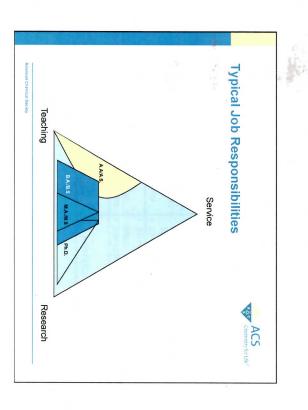




# Trends and Outlook for Academic ACS Jobs Growing or shrinking? Which segments are most promising (community colleges?) More use of non-tenured faculty?







# What Counts in Academe? What Counts in Academe? Advantages and Disadvantages of a Career as an Academic Advantages Independence Lower salaries generally Complete by security after tenure Lower salaries generally Long hours Long hours

# Job Responsibilities and Type of Institution





### **Locating Academic Jobs**



- · C&EN
- Chronicle of Higher Education
- Your advisor

can Chemical Society

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### Jobs Trends and Outlook in Governmental ACS

- Main types

- R&D jobs

- Project management jobs
- Overall growth
- Relative federal vs state or local
- Areas of special interest

Agenda Introduction to Career Pathways:



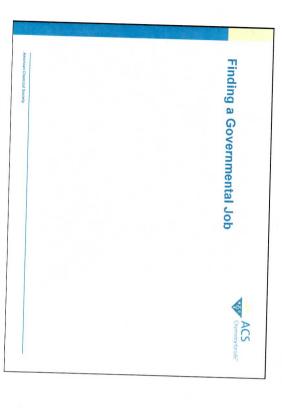
- Understanding myself
- The four main career pathways
- Working in industry
- Working in academe
- Working in government
- Working for yourself
- Developing a personal network

**Examples of Governmental Jobs** 



American Chemical Society		
unical Society		Federal
		State
		Local







American Chamical Society		<ul> <li>Ability to get funding in some cases</li> <li>Teamwork and collaboration</li> </ul>	What Counts in Government
			ACS Chemistry for tife

### a Career in Government **Advantages and Disadvantages of**

#### Advantages

- Great job security
- Ability to contribute to the nation or community
- Disadvantages

ACS Cherrical

ACS
Chemistry for Life

- Relatively fewer jobs than in industry
- What else?

Burnay

Government

Imagining Yourself in

### Agenda Introduction to Career Pathways:



- Understanding myself
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Trends and Outlook for Entrepreneurial War ACS

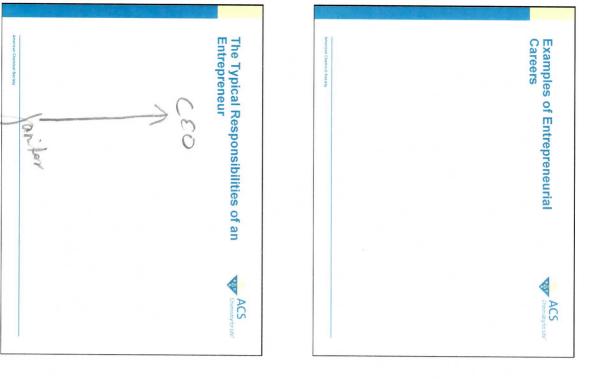
Ventures

What areas are especially promising?

Success rate for new ventures?







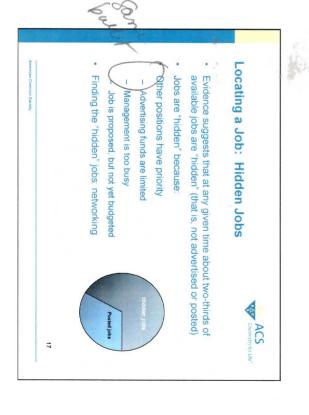




# Advantages and Disadvantages of a Career as an Entrepreneur Advantages Advantages Often, extremely high risk Requires personal investment Advantages Requires personal investment







## Networking: Where to Start

- ACS national meetings: attend session topics of interest and engage presenters and other attendees
- Local section meetings: contact people in your geography
- On campus: establish contacts through professors career office, alumni association

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ACS Chemisty's

# The Purpose of the "Networking Conversation"

- To signal your availability and interest

  To learn about a comment of the state of To learn about a company and a job position

Important tip: The purpose of the Networking Conversation is **not** to ask for a job.

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**Networking: Some Tips** 

- Set an objective of meeting at least two new people per event you attend
- Engage people in a conversation about themselves, not
- Print and exchange business cards (order yours on-line or at a big-box office supply store)
- Ask for a follow-up contact (a "networking conversation")

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## Types of Questions to Ask

Questions about the organization

How does this organization differ from its competitors? — How would you describe the culture of this company?

Questions about the job

- What does your typical day look like?
- What are your main responsibilities?
- Questions about the person
- What do you like best about your job? What do you find most challenging?
- How did you get your job? What would be the next step in your career?
- Questions about your own fit for the job
- What are some typical entry-level job titles and functions?
- What kind of advice do you have for someone pursuing a job in this area?
- What would you say are my strongest assets for a job in this area?

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Develop a resume (or vita) portfolio that can be used as the basis for

Start developing your personal network

tailoring documents for a specific position

Begin your job search 12 to 18 months in advance of finishing your Identify the priority career pathway and begin process of further investigation

The Next Sty -



#### Introduction to Career Pathways: Review

- Understanding myself
- The four main career pathways
- Working in industry
- Working in academe
- Working in government
  - Working for yourself
- Developing a personal network







# What Career Services Are Available from ACS

- Employment services
- Personalized career assistance
- Workshops and presentations
- Workforce analysis
- Local section career program
  - Career-related publications

