

Launching a Successful Career in Science

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Professor of Chemistry, University of Oregon

Tuesday, January 13, 2015



The presentation today is comprised of two parts:

Enhancing your communication skills

Job search tips and tactics



First: Build on your strengths

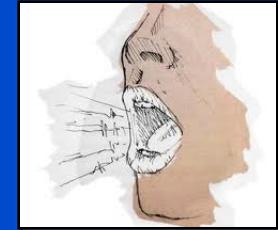
- 1. Creativity**
- 2. Curiosity**
- 3. Open mindedness**
- 4. Love of learning**
- 5. Perspective**
- 6. Bravery**
- 7. Persistence**
- 8. Integrity**
- 9. Vitality**
- 10. Analytical**
- 11. Kind**
- 12. Social intelligence**
- 13. Problem solver**
- 14. Fair**
- 15. Leadership**
- 16. Self Control**
- 17. Gratitude**
- 18. Optimistic**
- 19. Entrepreneurial**
- 20. Humorous**
- 21.**
- 22.**
- 23.**

2. Your English skills are critical

3. How you communicate is critical

If you want to be heard, you must:

Project your voice



Use good breathing techniques

View your whole body as an instrument of sound:

- the larynx and pharynx, the mouth, and the nose

Effective communication includes body language

Up to 93 % of communication is
non-verbal.

The eyes communicate more than any
other part of the human anatomy.



An effective speaker looks like this:

Tall, open posture and gestures

Head up

Eye contact with the room



An ineffective speaker looks like this:

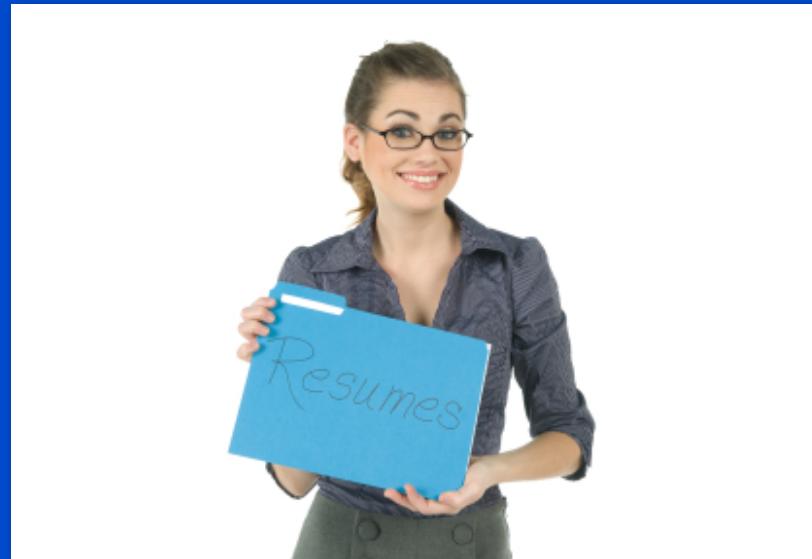
Gestures small, close to body, or hands in pockets or on face

Eyes avoiding the audience

Standing small with stooped posture



4. Develop a resume that can be easily adapted for different job applications



The academic and industrial CVs are often quite different



Academic

- 2-4 pages
- Very detailed description of education and work experience
- May begin with an objective or summary statement

Industrial

- 1-2 pages
- Presents your capabilities supporting the position, eliminating unrelated data
- Must follow the 10 second rule
- Begins with an objective or summary statement

There are key elements of an industrial CV

- Convince employer that you are worth an interview
- Target your qualifications for a specific job
- Keep as brief as possible without sacrificing qualifications
- Use an easy-to-read format
- Do not lie, exaggerate or use words that require a dictionary
- Focus on strengths and accomplishments
- Keep it to two pages or less and label your second page

The first few lines of your resume are particularly important for an industrial CV

Objective statement: “This is what I want”

- Brief clear statement that outlines the type of employment you seek
- Must be quite specific

OR

Profile or summary statement: “This is what I have to offer”

- Details 3-5 key strengths, experiences and interests that one has to offer
- Can be called Profile, Summary, Strengths, Skills or Highlights

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OBJECTIVE

Seeking a position in a university or firm specializing in advanced biochemistry for the development of human immune system vaccines

SUMMARY

- Nearly ten years of experience in biochemistry.
- Served as a guest lecturer in biochemistry at the University of Oklahoma.
- 12 published articles in respected biochemistry and medical journals, including the Journal of the American Chemical Society and the American Scientific Review

EMPLOYMENT

Jensen Labs, Oklahoma City, OK

Biochemist, January 1997 to Present

Concentrated largely on membrane based lateral flow immunochemistry. Worked with product development from concept through product transfer and full scale manufacturing. Prepared documentation packages. Gained valuable experience with project management, product launch, and gained familiarity with FDA requirements and procedures.

InTex Pharmaceuticals, San Diego, CA

Research Associate, 1996 - 1998

Served as a research associate in the Enzymology group of the InTex Biochemistry Department. Held responsibility for enzyme characterization, including catalytic and physical properties, inhibitor characterization, compound potency and mechanism, data reduction, and protein purification and characterization for enzyme and inhibitor characterization.

Biomedical Laboratory Research, San Diego, CA

Lab Technician Intern, 1991 - 1996

Responsible for documentation of new lab research. Served as an assistant for 10 biochemists, performing various research functions.

Education

University of California, San Diego, CA

Ph.D., Biochemistry, 1996

M.A., Chemistry, 1993

Reed College, Portland, OR

B.A., Biology, 1990

An academic CV follows a standard format

- Name at the top with contact information
- Summary or objective statement (optional)
- Education (including thesis)
- Professional Appointments
- Awards and Honors
- Publications
- Patents and other accomplishments

Use reverse chronological order

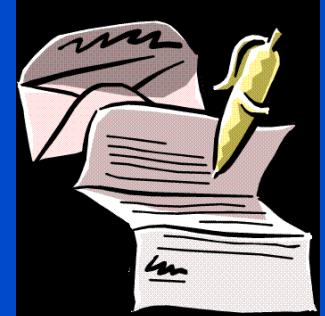


You should avoid doing the following:

- Avoid abbreviations and acronyms
- Never use pronouns such as: “I”, “me”, “my”, “our”
- Don’t use fancy fonts, binders, layouts
- Avoid lists of boring sentences
- Don’t add photographs
- Don’t add personal, family or health information

5. Be able to write a compelling cover letter

- Needs to be clear and concise (1-2 pages)
- Gives a personal touch to your application
- Don't repeat what is already in your resume
- Sheds a new perspective or emphasizes what is in your resume instead
- Draws attention to your strengths
- Sparks interest in the reader



For both the CV and cover letter, pay attention to details

- Proof, proof and proof again
- Have others proof-read and provide suggestions
- Convert final versions to a pdf format
- Make certain that it can be scanned legibly



6. Help your references with their letters

- Give them an updated resume or CV
- Provide a set of bullet points of your strengths
- Offer to give them a summary of your accomplishments
- Provide them with a description of the job, why you want it and what makes you qualified for the job

7. Networking is important as the CV-especially for women

“A mediocre CV (stylistically, not with respect to your actual expertise and accomplishments) and a lot of networking is guaranteed to get you a job.

A stunning CV and no networking is equivalent to playing lotto.”

Kevin Foley, Ph.D



8. Create a positive internet presence for yourself and career advancement

- **Your online presence will eventually replace a resume.**
- **Use your website presence to communicate your competence and aspirations.**
- **Use your website for networking with others.**

Additional reasons for a website

- Having a website makes you “findable”.
- Helps you to establish your “personal brand”
- It shows that you have skills to develop the website and confidence to show it publically.

It can be a very simple form:



Allison Engstrom

Graduate Student Researcher
Department of Materials Science & Engineering
210 Hearst Memorial Mining Building
University of California Berkeley, CA, 94720
allison.engstrom@berkeley.edu

Educational Background

B.S. in Materials Science and Engineering at Arizona State University (2008)
M.S. in Materials Science and Engineering at the University of California, Berkeley (2010)

Research Interest

Alli's research involves the electrochemical synthesis and characterization of electrodeposited vanadium oxide electrochemical capacitor electrodes. Among the research objectives are the degradation mechanisms in aqueous environments, the optimization of aqueous and nonaqueous electrolytes as well as the cycle behavior of whole-cell systems.

Publications, Patents and Conference Talks

A. M. Engstrom, F. M. Doyle, Exploring the Cycle Behavior of Electrodeposited Vanadium Oxide Supercapacitor Electrodes in Various Aqueous Environments, ECS PRIME Meeting, Honolulu, HI (2012) poster.

F. M. Doyle, A. M. Engstrom, Electrochemical Synthesis of Nanostructured Vanadium Oxides for Use as Supercapacitor Electrodes, TMS Meeting, Orlando, FL (2012) presentation.

A. M. Engstrom, E. Lim, J. A. Reimer, E. J. Cairns, Kinetics of COads Oxidation on Pt Black, ECS Fall Meeting, Boston, MA (2011) presentation.

E. L. Engstrom, A. M. Engstrom, C. Friesen, Tri-Continuous Manganese Oxide Electrodes Demonstrating Ultra-High Capacity, ECS Spring Meeting, Montreal, Canada (2011) presentation.

Friesen, C. A., Engstrom, A. M., Engstrom, E. L., Hayes, J. R., Electrode For a Charge Storage Device and Method of Manufacture. Arizona Board of Regents for and on behalf of Arizona State University, assignee. U.S. Patent Application 20100243459. 29 March 2010.

J. R. Hayes, A. M. Engstrom and C. Friesen, "Orthogonal flow membraneless fuel cell" J. Power Sources 182 (2008) 257-259.

Highlighted Awards and Activities

ECS San Francisco Section Daniel Cubicciotti Award (2012)
NSF Graduate Research Fellow (2008 - Present)
Chancellor's Fellow, UC Berkeley (2008 - 2010)
Outstanding Graduate, Ira A. Fulton School of Engineering (2008)
Goldwater Scholar (2007 - 2008)
Presidential Scholar, ASU (2004 - 2008)

Doyle, Fiona



Donald H. McLaughlin Professor of Mineral Engineering
Executive Associate Dean, College of Engineering

325 Hearst Memorial Mining Building, Mailcode 1760
320 McLaughlin Hall, Mailcode 1700
UC Berkeley
Berkeley, CA 94720

fmdoyle@berkeley.edu

Phone: 510-642-5771

Fax: 510-643-5792

Website:

<http://www.mse.berkeley.edu/faculty/Doyle/fionadoyle.html>

Research Areas:

Chemical and Electrochemical Materials; Electrical, Magnetic and Optical Materials, Structural Materials

Education:

1978 B.A. Metallurgy and Materials Science, University of Cambridge

1979 M.Sc. (Eng) Extractive Metallurgy, Imperial College of Science and Technology, London

1982 M.A. Natural Sciences, University of Cambridge

1983 Ph.D. Hydrometallurgy, Imperial College of Science and Technology, London

Professional Experience:

1983-present Assistant Professor, Associate Professor and Professor, UC Berkeley

2002-2005 Chair, Department of Materials Science and Engineering

2005-2009 Executive Associate Dean, College of Engineering

2009-2011 Vice Chair and Chair, Berkeley Division of the Academic Senate

2011-present Executive Associate Dean, College of Engineering

Major Awards:

2008-present Donald H. McLaughlin Professor of Mineral Engineering

9. Prepare for a good interview



In person



By phone



On-line

Make the most of your interview



- Develop strong, clear and concise answers to the most common questions
- Do your homework about your potential employer and be ready to ask questions
- Learn to speak in a strong and authoritative tone
- Practice eye contact, a firm hand shake, positive body language and careful listening

Practice common interview questions

1. So, tell me a little about yourself.
2. What type of a job are you looking for?
3. Tell me of a challenge you have overcome that demonstrates your creativity?
4. What do you consider your strengths? Weaknesses?
5. Why do you want to work for this company?



Practice common interview questions

6. What motivates you to do a good job?
7. How do you work under pressure?
8. How would previous co-workers describe you?
9. Where else have you applied?
10. Do you have any questions you want to ask me?



Practice an interview session

Divide up into groups of 3

Designate an job seeker, an interviewer
and an observer

Using the job scenario, conduct a
practice interview



Preparing for a phone interview

- Keep your resume in clear view
- Have a short list of your accomplishments
- Use a land line
- Be ready to jot down any notes, names



During the phone interview

- Speak slowly and enunciate clearly
- Use the person's title
- Give short and concise answers
- Avoid simple yes and no
- Avoid silence - if you need to think, say so

Smile



Preparing for the on-line interview

- Use a hard-wired internet connection
- Arrange the camera for your eye level
- Prepare as for an in-person interview
- Dress professionally
- Choose a professional environment
- IT troubleshoot and practice



During the on-line interview

- Sign on 15 minutes early
- Display confidence as much as possible
- Speak directly into the webcam
- Relax and show your personality



Follow up after the interview

- Thank the interviewer for giving you the opportunity to interview
- Provide any additional comments about what you learned from the interview
- Add a sentence or two stating why you are well-suited for the position

10. NETWORK

NETWORK

NETWORK



Advancing in your career

- Make the most out of feedback and criticism
- Get out and make contacts
- It's not all in the paycheck
- The way you look and talk matters
- Avoid meltdowns
- Don't assume the workplace is fair
- Don't assume that your good work will be noticed
- Don't ask, don't get

Launching your Career: Tips and Tactics for Success

- Preparing for the job search
- Creating a strong resume or CV and website presence
- Helping your references write a compelling letter
- Network, network, network
- Practice interview questions
- Follow-up after the interview
- Develop strong negotiation skills
- Understand the dynamics of the workplace

The COACh website provides a base for networking, resources, surveys, news, workshop activities etc.

The image displays the COACh website on two devices: a desktop computer and a smartphone, both set against a background of a wooden desk. The desktop screen shows the homepage with sections for International, Impact, Sponsors, Members, and Job Listings. It features a photo of a woman writing on a chalkboard, sticky notes for 'What is COACh', 'COACh Activities', 'COACh Workshops', and 'COACh Family', and a 'Upcoming Events' section. The smartphone screen shows a 'Messages' section with a welcome message and a link to a PDF, and a 'To Do List' with 13 items. The background desk also has a cup of coffee, a pen, and paper clips.

<http://coach.uoregon.edu>

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COACh International - iCOACh

The image is a collage of three photographs. On the left, there's a screenshot of the COACh International website. The site has a dark header with the COACh logo and the tagline "Assisting in the success and impact of women scientists and engineers". Below the header is a navigation menu with links to COACh International, COACh-the-COAChes, Impact, Sponsors, Members, and Job Listings. To the left of the main content area, there's a sidebar with sticky notes titled "What is COACh?", "COACh Activities", "COACh Workshops", and "COACh Family". Below this is a section for "Contact COACh!" with arrows pointing to "Join COACh!". At the bottom of the sidebar are social media icons for Facebook, LinkedIn, YouTube, and COACh Chat. The main content area features a world map with pins indicating global presence, followed by a section titled "COACh Presentations in Vietnam" for January 12-21, 2015, listing various presentations at Hanoi University of Science & Technology, Danang University of Technology, American Center, U.S. Consulate General, Ho Chi Minh City, and Can Tho University. On the right, a smartphone displays the COACh mobile application, showing icons for International, Cyber COACh, COACh Chat, Testimonials, Resources, and Research. Above the phone is a white cup of coffee on a saucer, resting on a dark wooden surface.