

HOW YOU SHOULD

CVs: Category Headings

- Name
- Contact Information
- Education:
 - back to bachelor's degree.
 - Title of dissertation and advisor(s) name(s).
- Publications and Presentations:
 - Full bibliographical citations
- Awards, Honors, and Distinctions:
 - Awards, prizes, fellowships etc.
 - Undergraduate and graduate
- Teaching Experience
 - Full course titles, and short description. Indicate if taught the same class multiple times.
- Professional Activities and Academic Committee Work
 - Service Activities, graduate student organizations, advising, etc.

CV Headings cont.

- Areas of Teaching Interest- Optional
 - List at most 4-5 areas.
- Research Experience
 - Work that was outside your coursework and dissertation
- Other Professional Experience
 - Post-college jobs that aren't covered in other categories
- Professional Affiliations
- References
 - Names, titles, contact information

https://cstw.osu.edu/sites/default/files/2020-08/cv_0_0.pdf

Sarah Buckeye

123 Scarlett Avenue Columbus, OH 43201 | (614) 555-5555 | Buckeye.1@osu.edu

EDUCATION

The Ohio State University (OSU), Columbus, OH

Ph.D. in Mechanical Engineering | GPA: 4.0

August 20XX

Thesis: "Design and Implementation of a High Speed Helical Gear Efficiency Test"

M.S. in Mechanical Engineering | GPA: 3.9

May 20XX

The University of Akron, Akron, OH

B.S. in Mechanical Engineering | GPA: 3.9

May 20XX

QUALIFICATIONS

- 4 years' experience with Design Manufacturing, Design of Machine Elements, Control Systems Design, and Automation
- Knowledge of Vehicle Dynamics, Power Train Dynamics, Aerodynamics, Finite Element Methods,
 Continuum Mechanics, Design of Experiment (DOE), and JMP
- Software: SOLIDWORKS, Prof., MATLAB, Simulink, ANSYS, LabVIEW, MSC ADAMS, Fortran
- Graduate level coursework in Discrete, Continuous and Nonlinear Vibrations, Advanced Engineering Acoustics, Automotive NVH Control, and Digital Signal Processing
- Data analysis and strong problem solving skills enhanced through 4+ years of professional and academic project teams

RESEARCH EXPERIENCE

U.S. Department of Transportation: 123 Center

January - November 20XX

Research Contractor under Dr. M. Buckeye

- Applied for and received grant for \$100,000 from ABC Corporation to fund research initiatives
- Set up hardware in the loop simulation integrating TruckSim, MATLAB, and D-Space Control desk with brake hardware
- Validated complex system through detailed experiments and data analysis; documented findings
- Developed and experimentally validated linear and nonlinear analytical models of hydraulic bushings with alternate configurations in both frequency and time domains

The Ohio State University, Advanced Diagnostics Research Group

August 20XX - Present

Research Assistant, Dr. R. Standard

- Collaborate with Auto Car manufacturers to model three wheel vehicles in ADAMS-Car
- Measure experimental suspension characteristics and hard points of ATV model 1
- Create performance and safety metrics for three-wheeled vehicles; tested under various maneuvers to determine matrix of feasible CG locations that ensure safe and stable operation

The Ohio State University: Structures and Systems Lab

May 20XX - May 20XX

Research Assistant, Professor R. Standard

- Developed analytical model for a fuel injector and simulated the system in Simulink
- Designed and constructed control systems lab exercises involving PID and PPF control
- Programmed systems in C; derived design equations for actuators that included entities such as deflection and block force
- Validated design metric using an MTS hydraulic force/displacement system

ENGINEERING EXPERIENCE

Big Engine Company

May - August 20XX

Graduate Intern

- Programmed MATLAB Graphic User Interface software for analysis and design of hydraulic bushings; saving approximately 12% in annual labor costs
- Designed and fabricated prototype device capable of various configurations; conducted steady state and transient experiments to examine dynamic properties
- Utilized vehicle system models to investigate effects of hydraulic bushings on automotive suspension vibrations, such as shimmy and brake judder

Propeller Simulations in CFD, Sponsored by Ohio Engineering Corporation

January - May 20XX

- Led a multidisciplinary engineering group to determine the feasibility of numerical simulations of surface-piercing propellers
- Determined CFD models for complete simulation of interaction between rotating propeller and water-free surface; company currently investing in implementation of project findings

LEADERSHIP AND PROFESSIONAL INVOLVEMENT

National Conference Chair, Future of Mechanical Engineers

January 20XX - Present

Coordinate logistics for conference with 20 professional industry speakers, hosting 300+ attendees
 Member, American Society of Mechanical Engineers
 October 20XX – Present
 Graduate Teaching Associate, OSU Department of Mechanical Engineering
 June 20XX – May 20XX

- Instructed two courses: Engineering Introductory Course and Design for Manufacturing and Assembly, covering computer aided design software such as SOLIDWORKS
- Assessed performance of 50+ students; held weekly office hours to provide additional support

Elected Delegate, Council of Graduate Students

May 20XX - August 20XX

SELECTED PUBLICATIONS AND PRESENTATIONS

B. Buckeye, S. Grey, and A. Name. "New Standard Performance and Safety Metrics". Under review.

B. Buckeye and S. Grey. "Internal Fluid Dynamics and Frequency Characteristics of Feedback-Free Fluidic Oscillators" Engineering Publication Company, 2(22), 6-10 (20XX).

A. Person, B. Buckeye, and C. Person. Linear and Nonlinear Analytical Models of Hydraulic Bushings. Future of Mechanical Engineers Conference. Newark, NJ. 2/13-2/18/XX

A. Person, C. Person, and B. Buckeye. Effects of Hydraulic Bushings on Automotive Suspension Vibrations. Mechanical Engineering Conference. Austin, TX. 9/28-10/3/XX

HOW YOU SHOULD FORMAT A RESUME?

Resumes

- Chronological resume- emphasizes job titles and dates (most traditional format)
 - Reverse chronology (most recent/current job first)
- Skills resume- built around what you did, not when you did it.
- Categories:
 - Contact Information
 - Career objective- Optional
 - Customize it to the job/company you are applying.
 - Summary of qualifications
 - Bulleted list of 3-7 items
 - Education
 - Degree, major, month and year received, university, city, state. Optional: GPA
 - Experience
 - Honors
 - Activities
 - References

https://cstw.osu.edu/sites/default/files/2020-08/resume_0.pdf

WHAT IS THE JOB SEARCH TIMELINE?

PhD Job Search Timeline

Years 1-4:

- Register with ECS
- Explore fellowship/gran opportunities (1-2 year)
- Identify areas of research and complete coursework
- Give presentations and expand teaching experience or supervisory skills.
- Help on committees and continue apply for grants
- Submit articles for publication
- Create a CV and update as needed
- Discuss application, search process, and expectations of candidates in your field of specialization with your advisor.
- Make a plan for your last year as the job search process, dissertation, and other obligations will require a
 great deal of balance.

PhD Job Search Timeline Cont.

- Year 5 (or last year of PhD Program):
 - Update CV and other job search documents and have them proofed by ECS advisor and others
 - Create a dossier online and set up delivery arrangements for your letters of recommendation to be submitted
 - Contact faculty, advisors, and others from whom you are requesting recommendation letters. Best to reach
 out to your letter writers the summer before your last year.
 - Gather application materials including your professional materials as well as course syllabi, teaching evaluations, submitted and published articles, conference abstracts, and transcripts.
 - Send applications in the fall using network and online job search resources
 - Prepare for interviews using your advisor and ECS.
 - Inform your advisor and reach out to ECS for help
 - Consider parallel plans and alternatives to an academic career if your search is not progressing

HELPFUL RESOURCES

Job Search Resources

The Ohio State University Resources		
<u>Handshake</u>	Handshake is a "one-stop shop" for finding jobs, researching employers, keeping tabs on ECS events, and accessing documents helpful to your job search. It also provides links to external job search and career planning websites.	
Jobs at Ohio State and Ohio State Medical Center	View and apply for OSU and OSU Medical Center job opportunities. In addition to full time jobs, student positions are also available.	
Ohio State Undergraduate Research Office	On-campus research opportunities—student can learn how to get involved with research as an undergraduate.	
Ohio State Student Employment	A list of jobs both on- and off-campus for current OSU students.	
Ohio Specific Resources		
<u>ColumbusInternships.com</u>	Connects Columbus-area college students with Columbus employers. Hosted by the Columbus Chamber of Commerce.	
OhioMeansJobs.com	Search State of Ohio's website for current job openings in Ohio and post your resume.	

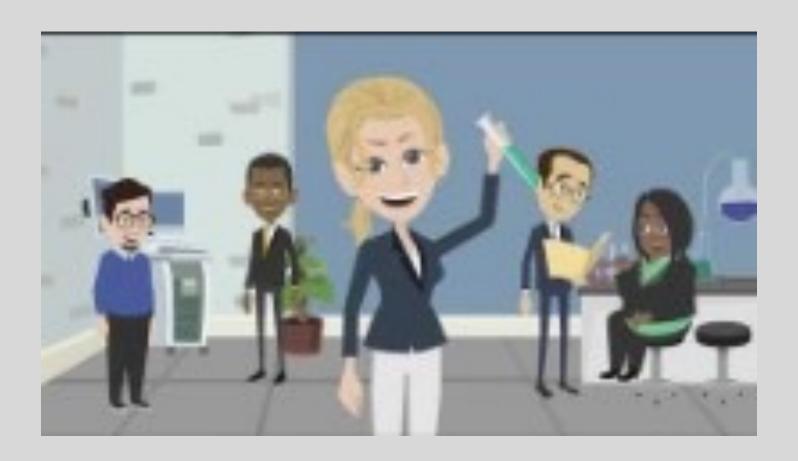
	Specialized Resources
<u>ACS</u>	An online career and employment site exclusively for the chemical sciences community, hosted by the American Chemical Society.
AIChE	The "careers" area of the American Institute of Chemical Engineers has search job boards. Resumes can be uploaded to the site.
ASME	The careers section of the American Society of Mechanical Engineers to find jobs in industry and research. ASME also has a salary tool.
<u>IEEE</u>	IEEE (Institute of Electrical and Electronics Engineers) hosts a job board for technology professionals at any stage of their career, whether getting started, advanced, or transitioning. Resumes can be uploaded to the site.
<u>Jobipedia</u>	Community of HR professionals that offer advice to entry level job seekers. All the advice and answers provided on the site are from an expert who meets and interviews prospective hires on a regular basis.
New Scientist Jobs	Searchable database with Science and Technology jobs including international jobs. Job alerts can be created.
NPSE Job Board	Career center hosted by National Society of Professional Engineers.
Power Engineering Careers	For students interested in the electric power industry. Create an account to search for internships and career opportunities, research businesses and to post a profile and resume. Sponsored by the IEEE Power & Energy Society.
Science Careers	Provides career resources for life, physical, and health sciences in industry, academia, and government.

Job Search Resources Cont.

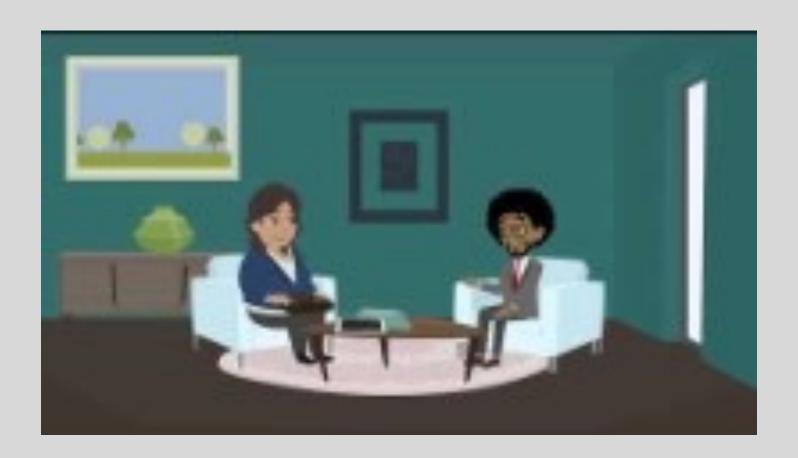
Geographical Resources		
Connects job-seeking college students and alumni with employers who want to hire candidates through faculty and career networks		
at colleges and universities. Uses a patented matching process to deliver jobs to job seekers, basing matches in part on a user's academic affiliation and field of study. Sign up required to see job information.	1	
CareerOneStop is a series of online iob search resources that	!	
includes job postings. The site is sponsored by the U. S. Department of Labor. Provides career, training, and job search resources.		
Job board for technology, energy, and healthcare industries. Account can be created for job alerts.		
Job listings by major, experience level, and state.		
A job listings aggregate site with key word search functionalities and geographic search feature.		
The student job portal can be filtered by entry level career and intern or co-op positions.		
Job listings aggregate site that allows functional and geographic search options.		
An employment search engine that takes you directly to employers' job postings. Includes geographic search options. Site is provided by the National Labor Exchange in alliance with the National Association of State Workforce Agencies (NASWA).		
	Connects job-seeking college students and alumni with employers who want to hire candidates through faculty and career networks at colleges and universities. Uses a patented matching process to deliver jobs to job seekers, basing matches in part on a user's academic affiliation and field of study. Sign up required to see job information. CareerOneStop is a series of online job search resources that includes job postings. The site is sponsored by the U. S. Department of Labor. Provides career, training, and job search resources. Job board for technology, energy, and healthcare industries. Account can be created for job alerts. Job listings by major, experience level, and state. A job listings aggregate site with key word search functionalities and geographic search feature. The student job portal can be filtered by entry level career and intern or co-op positions. Job listings aggregate site that allows functional and geographic search options. An employment search engine that takes you directly to employers' job postings. Includes geographic search options. Site is provided by the National Labor Exchange in alliance with the National Association	

Company Resource Links	
CNN Cost of Living	Tool compares salaries from one city to another city.
Fortune Magazine	Lists of companies (and company profiles): Fortune 500, Global 500, Best to Work For, 100 Fastest Growing, etc.
Glassdoor	Glassdoor is a career and workplace community giving an inside look via employee reviews.
GoinGlobal	GoinGlobal provides information about getting hired and working in individual countries. GoinGlobal also helps international students identify US employers that have provided sponsorship previously. Access GoinGlobal through Handshake under "Career Center" > "Resource Library."
Inc.	Entrepreneurial magazine that includes the "Inc 500" (fastest growing private companies in America).
MarketWatch	Information for stock market quotes, business news, and financial news subsidized by Down Jones & Company, Inc.
NerdWallet	Compare cost of living between two geographical locations. Costs are broken down by housing, transportation, food and entertainment. Core cost of living data is from ACCRA Cost of Living Index from the Council for Community and Economic Research.
Wall Street Journal	Stock market quotes, business and financial news.
Uniworld	Directory of American companies operating overseas and directory of foreign companies in the U.S.

Virtual Networking Tips



Interviewing Tips



Resume Tips



Resource Links

- ECS: Graduate Student Resume Templates (in Handshake)
- <u>CSTW: Career Preparation Resources</u> (includes CV template)
- ECS: Resumes Youtube Playlist
- ECS: PhD Job Search Guide (in Handshake)
- ECS: Job Search Resources (in Handshake)
- Since job search is an all-encompassing term that also includes interviewing and networking.
 ECS's interviewing playlist and virtual networking playlist