Sandia National Laboratories

LOCKHEED MARTIN

Amanda Dodd and Amelia Harrison
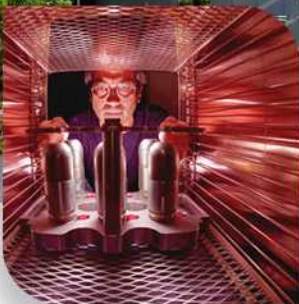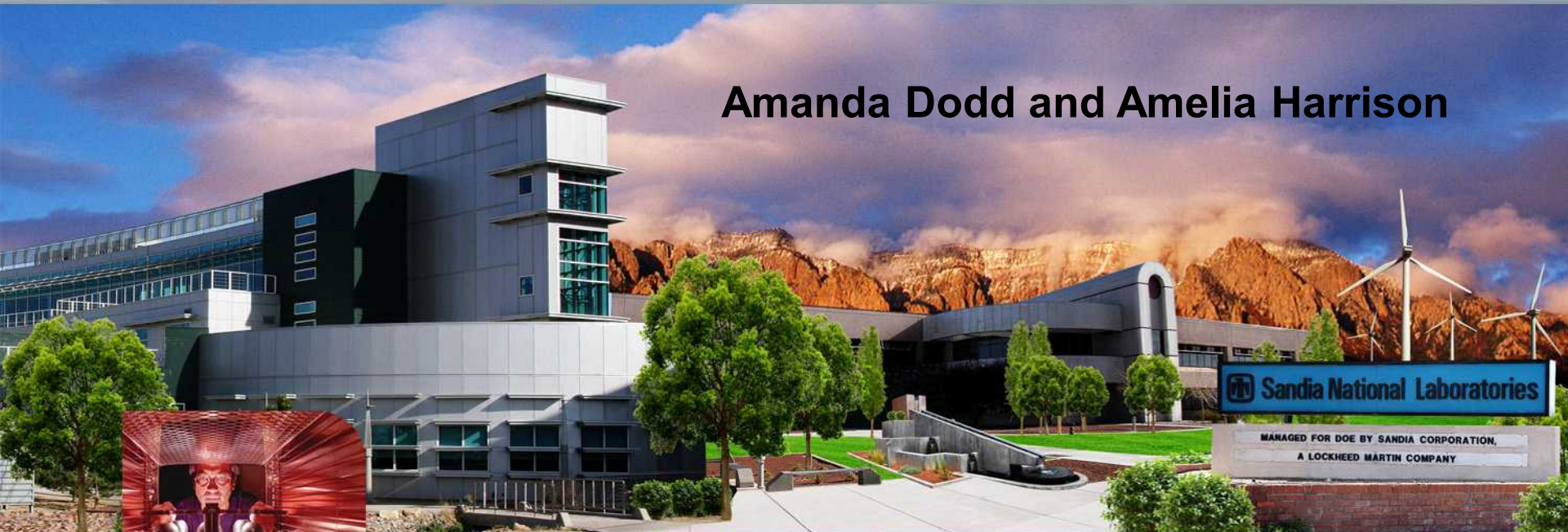
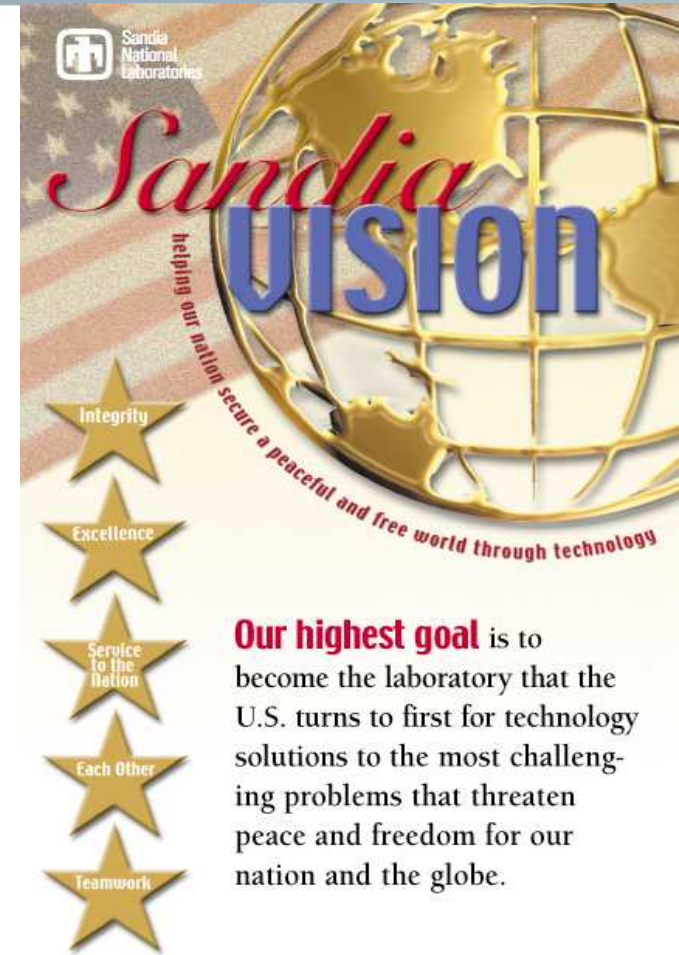Sandia National Laboratories

MANAGED FOR DOE BY SANDIA CORPORATION,
A LOCKHEED MARTIN COMPANY

Exceptional Service in the National Interest

"Exceptional Service in the National Interest"

- **National Security Laboratory**

- **Broad mission in developing science and technology applications to meet our rapidly changing, complex national security challenges**

- **Safety, security and reliability of our nation's nuclear weapon stockpile**

Sandia VISION

helping our nation secure a peaceful and free world through technology

Integrity
Excellence
Service to the Nation
Each Other
Teamwork

Our highest goal is to become the laboratory that the U.S. turns to first for technology solutions to the most challenging problems that threaten peace and freedom for our nation and the globe.
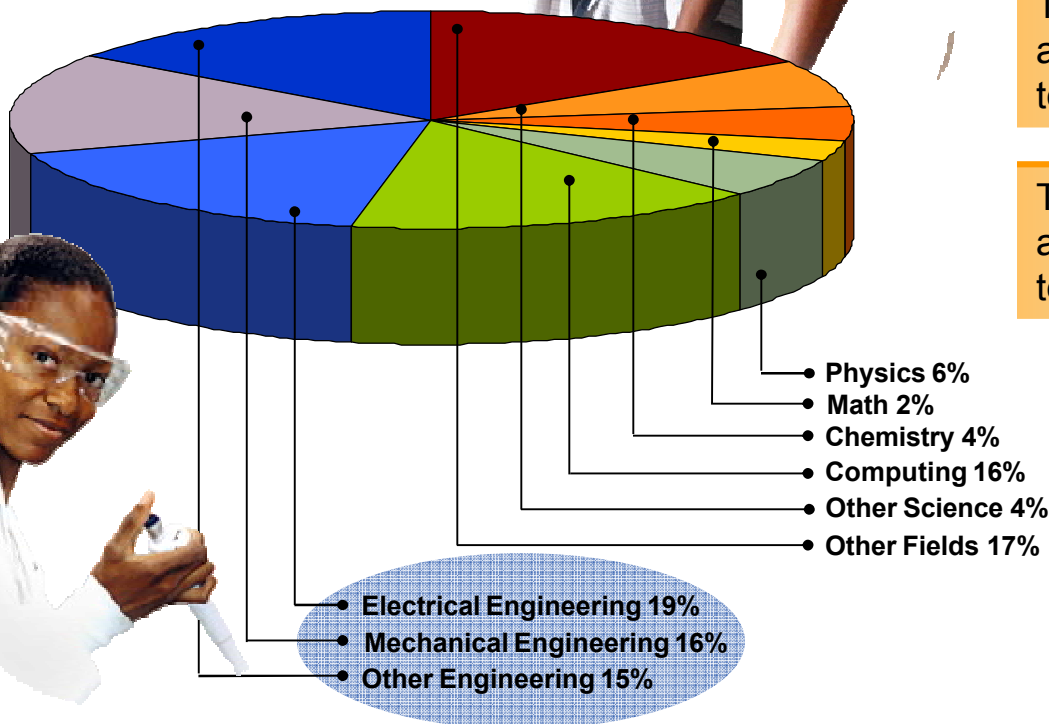
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National Laboratories

Pacific Northwest

Idaho

Fermi

Brookhaven

Ames

Argonne

National Renewable Energy

National Energy Technology

Princeton

Lawrence Berkeley

Lawrence Livermore

Sandia

Thomas Jefferson

Stanford Linear Accelerator Center

Los Alamos

Oak Ridge

Sandia

Savannah River

KEY:

⭐ = NNSA Labs

⭐ = Environmental Management

⭐ = Science

⭐ = Fossil Energy

⭐ = Nuclear Energy

⭐ = Energy Efficiency and Renewable

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Sandia's People

- **On-site workforce: 11,200**
- **FY08 permanent workforce: 8,400**
- **FY08 gross payroll: $886.1M**
- **FY08 budget: $2.3B**

Diciplines of Most Technical Hires
(FY03 – FY05)

| Top 3 hire fields comprise approximately 55% of technical hires	- IT - ME - EE
Top 5 hire fields are approximately 70% of technical hires	- Physics - Chemistry
Top 11 hire fields represent approximately 90% of technical hires	- Chemical Eng - Materials Science - Math - Biology - Nuclear Eng - Aerospace Eng

Technical Staff (3,844) by Degree
(End of FY08)

- Physics 6%
- Math 2%
- Chemistry 4%
- Computing 16%
- Other Science 4%
- Other Fields 17%

- Electrical Engineering 19%
- Mechanical Engineering 16%
- Other Engineering 15%

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Four Mission Areas

- **Nuclear Weapons**
- **Defense Systems and Assessments**
- **Energy, Resources and Nonproliferation**
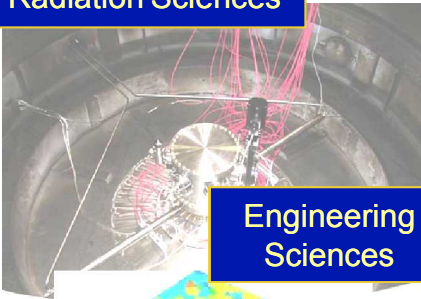- **Homeland Security and Defense**

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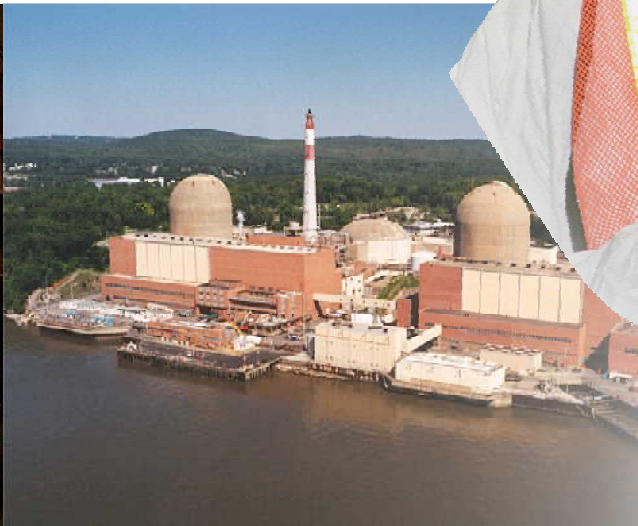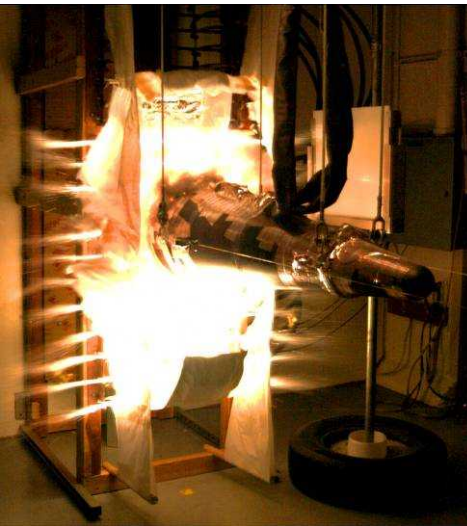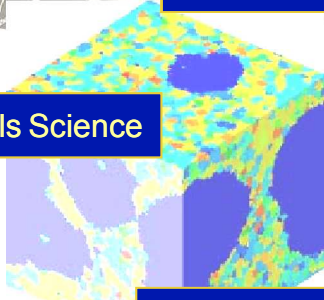
Core Capabilities

S&T Research Foundations + Relevant Special Facilities = Homeland Security Capabilities

Radiation Sciences

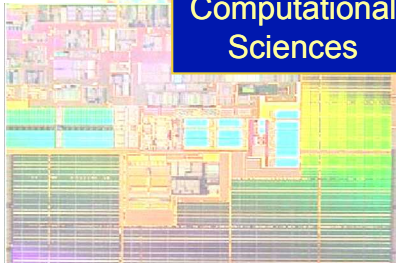**Engineering Sciences**

Materials Science

Computational Sciences

Microsystems Science & Engineering

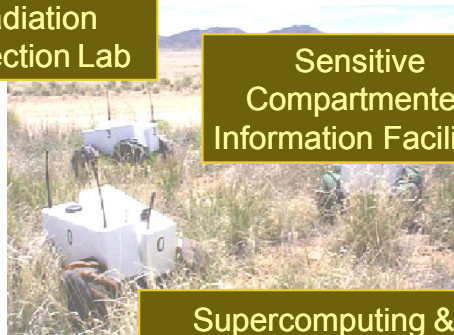**Explosive Source Characterization Facility**

National Infrastructure Simulation & Analysis Center (NISAC)

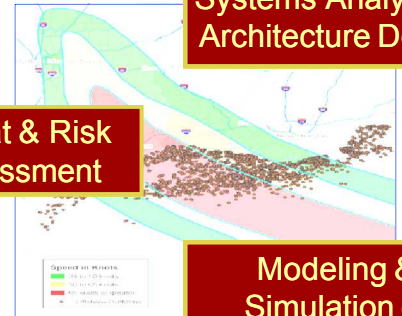**Microsystems & Engineering Sciences Application (MESA) Facility**

Chemical and Radiation Detection Lab

Sensitive Compartmented Information Facilities

Supercomputing & Visualization Facilities

Systems Analysis & Architecture Design

Threat & Risk Assessment

Modeling & Simulation of Complex Systems

Physical & Environmental Testing

Systems Engineering & Integration

Detection, Diagnostics, & Countermeasures
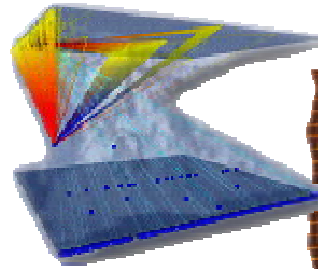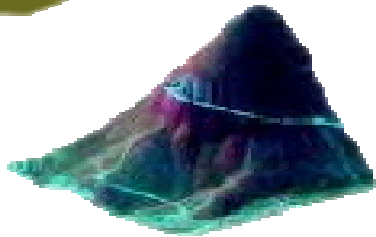
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Homeland Security and Defense:
Exploring Solutions Across the Threat Spectrum

Synthetic Aperture Radars

Vulnerability Assessment Mod/Sim Tools

Cyber Security
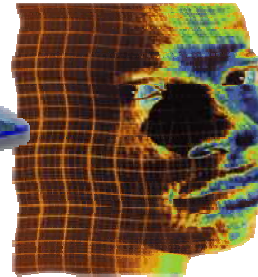
Scanner-less Range Imager

Explosive Destruction System

Anticipate   **Predict & Prevent**   **Respond**   **Recover**

Critical Infrastructure Protection Systems Analysis Tools

Access Delay

Explosive Detection Portal

Unattended Ground Sensors

Radiation Remediation Foam

Tunnel Characterization

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60 years of exceptional service

Cleanroom
invented 1963
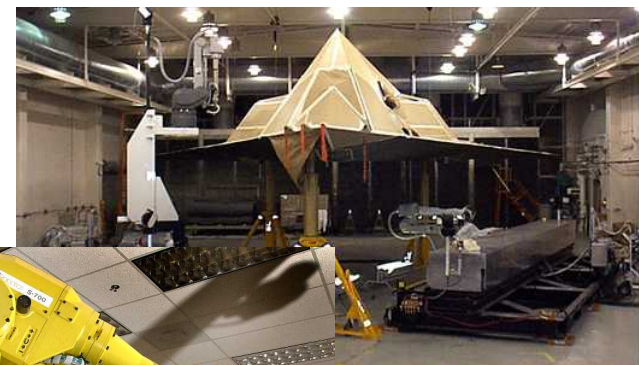
Robotic
Stealth
Coating

Intelligent
machines
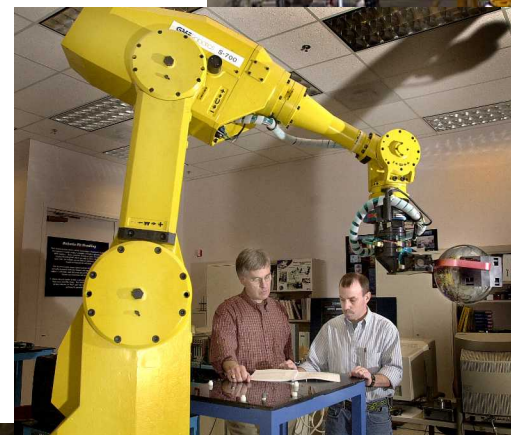
Unabomber and
shoe bomber
investigations

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Did you know…..

- A job listing often attracts between 100 and 1000 resumes

- On average only one interview is granted for every 200 resumes received

- There is usually a 2-3% return when shot gunning your resume

- Employers and recruiters typically determine their "short list" by a process of elimination by looking for reasons to not hire you

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Resume or Curriculum Vitae?

- **What is the difference?**
  - Length, what is included and what each is used for
  - Resume:
    - 1-2 pages
    - Concise: highlights skills, experience, education, archival journal publications, involvement/leadership positions
  - CV
    - Mulitple pages (at least 2)
    - Detailed: summarizes educational and academic background, experience (work, teaching, research,etc.), publications, presentations, awards, honors, affiliations, relevant workshops, reference, etc.
  - Sometimes the CV and Resume may look very similar
  - When to use which?
    - Carry BOTH!
    - Resume: Use for career fairs, some job postings
    - CV: academic positions, additional attachments to a job posting, post doc positions, follow-up for interviews and discussions with staff as opposed to managers

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What is the Most Important Information to Have on Your Resume/CV?

- **Your Name**
- **Address**
- **Contact Information including home number, cell phone number and email address**

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Resume Sections

- **Objective Section: state your job objective and/or your qualifications in a sentence or two at the top of the page**
  - The top of the page gets read most carefully
- **Education Section**
- **Related Courses**
- **Experience Section**
- **Academic Experiences**
- **Other Experiences: volunteer experiences, unions, and other work-related associations; community activities**
- **Skills**
- **Accomplishments**
- **Publications Section**

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How to organize a resume

- **Objective: The objective should be one or two sentences or a brief paragraph of your important qualities to answer the question why the company should choose you over other applicants.**
  - The Objective is optional
- **The Next Section should either be your Experience Section or Education Section**
  - How do you decide which should go first?
  - If you have just graduated or are still in school the Education section should go first. If you have been out of school for a few years and have some work experience the Work Experience should go first.
- **Education Section:**
  - Degree, GPA, date of graduation, or expected date of graduation (If you did not finish your education, put dates of attendance)
  - School, location of school

How to organize a resume

- **Experience Section:**
  - Always start with the most recent employment:
    - Job Title First, Company Name, City, dates of employment
      - If the job lasted less than a year put the months
    - Include all your work-related experience under this section
    - You should also include internships and voluntary work

- **Other Experience or Academic Experience:**
  - Such as short courses, unique research opportunities- provide information on location and a description of the experience

- **Skills**
  - List relevant skills to the position you are applying for

- **Accomplishments**
  - List honors, organizations (officer, committee member, etc)

- **Publications**
  - Archival journal, dissertation, master's thesis, peer reviewed
  - (On CV- list all publications, presentations)

Other Important Information

- **Scanable Resume-no staples**
- **Use Power Words**
- **Spellcheck**
- **No SS#, no photos, etc.**
- **Make sure your resume is a reflection of you-no lying!**
- **Can you have more than one resume?**
- **If your resume is more than one page make sure your name and contact information is on both pages**

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Eliminate anything that will eliminate YOU

- Reasons you left your previous jobs
- Don't use personal pronouns (I, me, my)
- Don't include hobbies or other irrelevant information
- Proofread carefully. Misspellings and typos are deadly on a resume.
- Personal information such as age, sex, marital status, spousal info, kids etc.
- Religious or political affiliations

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Power Words

- **cataloged caused changed chaired clarified earned edited effected eliminated identified implemented improved incorporated mediated met modified monitored motivated moved   resolved responded restored revamped tackled targeted taught terminated**

- **Actionable items**
  - Initiated program to examine…
  - Developed/Implemented …
  - Expanded sphere of influence
  - Mentored
  - Supervised
  - Collaborated

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Keywords

- **Keywords are used in job descriptions to describe critical job qualifications. They can be degrees, programming languages or other specialized skills.**

- **Essential keywords are usually positioned higher up in a job description, appear most frequently and are listed as required rather than preferred skills.**

Descriptions within your resume and CV

- **This is the spiciest part of the resume. This may be the only section fully read by the employer, so it should be very strong and convincing.**

  - Over 10 years as an organizational catalyst/training design consultant with a track record of producing extraordinary results for more than 20 national and community based organizations. A commitment to human development and community service. Energetic self-starter with excellent analytical, organizational, and creative skills.

What else?

- **Cover Letter**

- **E-mail follow-up to interviewer, career fair contact, anyone you talk to at a company**

- **Anything you can do to set yourself apart is memorable!**

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Resources

- **UT Austin ECAC:**
  - http://www.engr.utexas.edu/ecac/yourcareer/resumes

- ***The Basics of Science CV's (Chronicle of Higher Education):***
  - *http://chronicle.com/article/The-Basics-of-Science-CVs-/46273/*

- **UC Berkeley's advice on creating a CV:**
  - http://career.berkeley.edu/Phds/PhDCV.stm

- **MIT Guides:**
  - http://www.mit.edu/~career/guide/

- **Stanford University guides (examples):**
  - http://studentaffairs.stanford.edu/cdc/resumes

- ***How to Craft a Winning Resume and CV (ScienceCareers.org)***
  - *http://sciencecareers.sciencemag.org/career_development/tools_reso urces/how_to_guides/how_to_craft_a_winning_resume*

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YouTube www.youtube.com/user/SandiaLabs

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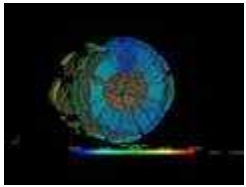
Apophis destruction simulation
140,800+ views

Z Machine at Sandia Labs
64,200+ views

Rocket Powered Train Impact Test
59,000+ views

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