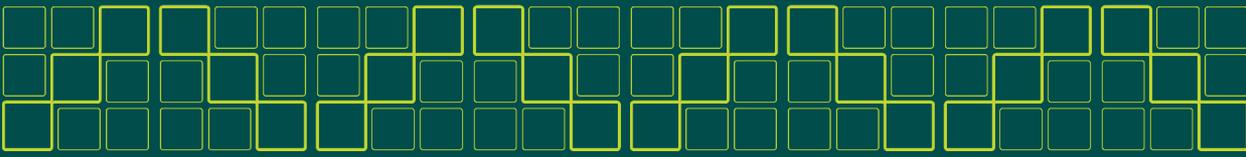
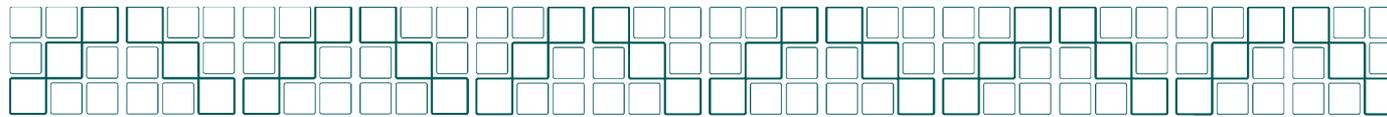

The Academic Job Search: Preparing Your Job Package

Sharon L. Milgram, Director NIH OITE



NATIONAL INSTITUTES OF HEALTH

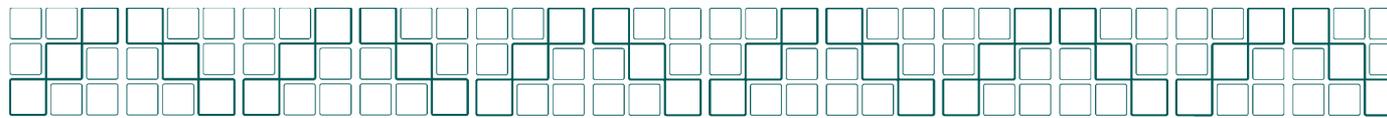


The Standard Timeline

- Early fall:
 - Decide what you are looking for
 - Seek advice & support of mentors
 - Put together job packets
 - Request letters of recommendation
 - Search and apply

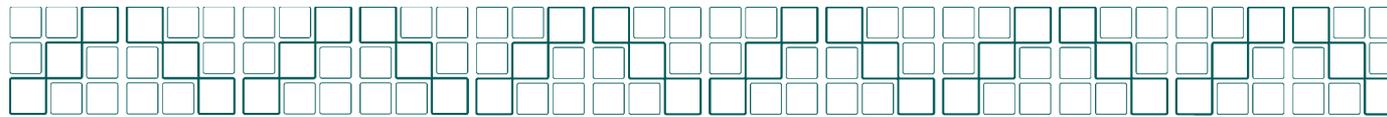
- Late fall - winter:
 - Continue applying
 - Prepare for interviews
 - Prepare for job talk

- Winter - spring:
 - Campus interviews
 - Negotiate offer(s)



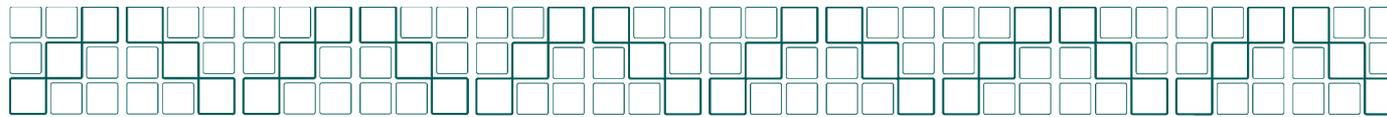
Making the Process Easier

- Begin networking now - on campus and beyond
- Avoid “in preparation” by focusing on publications now
- Consider key reagents or results that “sell” your story and prioritize obtaining these
- Talk with your PI about projects and reagents for the long-term
- Address thin teaching and mentoring credentials
- Reconnect with prior mentors and confirm their support
- Address lack of letter from graduate or postdoc mentor



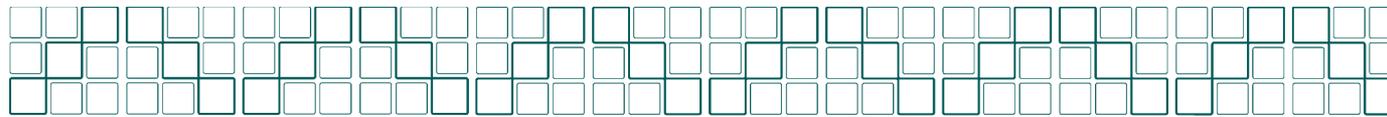
Finding Positions

- From your mentor and scientific network
- From relevant professional societies
- Posted in journals
- On-line, including:
 - <http://sciencecareers.sciencemag.org/>
 - www.newscientistjobs.com
 - <http://www.academic360.com>
 - <https://www.aamc.org/services/careerconnect/>
 - <http://www.nature.com/naturejobs/science/>
 - <http://careers.cell.com/>
 - <http://www.hercjobs.org>
 - <http://chronicle.com>



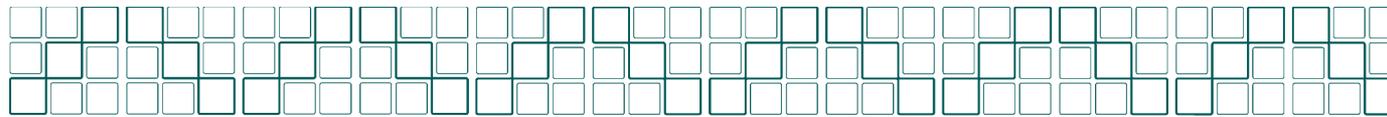
To Apply or Not To Apply...

- Is it the type of institution you want?
 - Level of competition and expectations you are looking for
 - Resources you need to do your work
 - Explore US institutions of higher learning at <http://classifications.carnegiefoundation.org/>
- Is it the right amount of research, clinic, and/or teaching?
- Location acceptable to you and your family
- Fits personal, partner and/or family needs
- Factor in the timing of your search and your ability/willingness to search another round



What Search Committees Look For

- A track record of excellence -- in research, teaching, and/or patient care
- A strong skill set -- relevant to your goals
- A good “fit” with the needs of the department
- Excellent communication skills
- Evidence of strong teaching and mentoring skills
- Evidence of leadership
- Evidence that you will be a good colleague

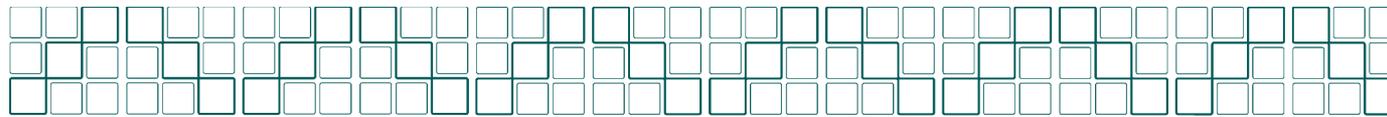


Application Materials

- Almost always requested:
 - Cover letter
 - Curriculum Vitae
 - Research and/or teaching plan/statement
 - Letters of reference/list of referees

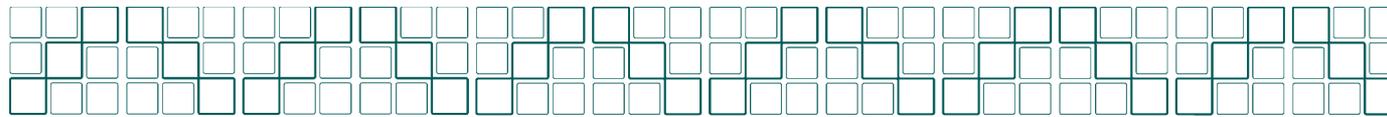
- Sometimes requested:
 - Representative reprints
 - Transcripts
 - Teaching evaluations, sample syllabi (teaching portfolio)
 - Diversity statement

- Follow instructions for electronic submission of application materials



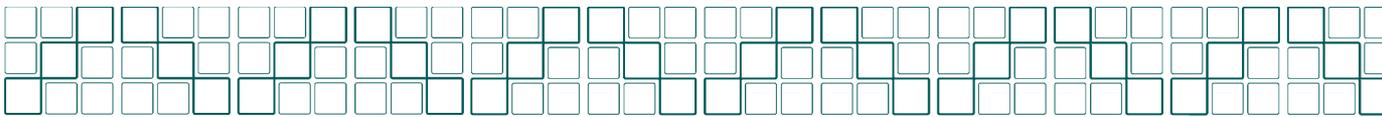
The Average Search Committee:

- Tenured and tenure-track faculty - in and outside of the hiring department
- Varies in size and power
- Members are often over-committed and very busy
- Inherently skeptical and critical
- May only be peripherally interested in your work
- Trying to get a quick picture of you and your research
- Looking for YOU to make their job easier



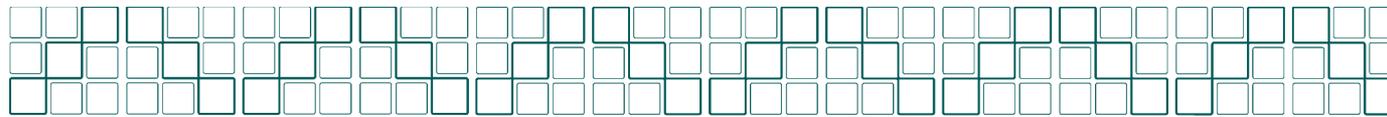
The Cover Letter

- **Goals:**
 - introduce yourself and highlight your accomplishments
 - state your broad research goals
 - state why you are a good “fit”
 - provide easy to find contact information
- <2 pages; longer if it replaces the teaching or research statement
- Can be tailored to the position
- Well written - no bullets or other organizational formatting
- Not the time to bring up two-body or other personal issues



Your CV

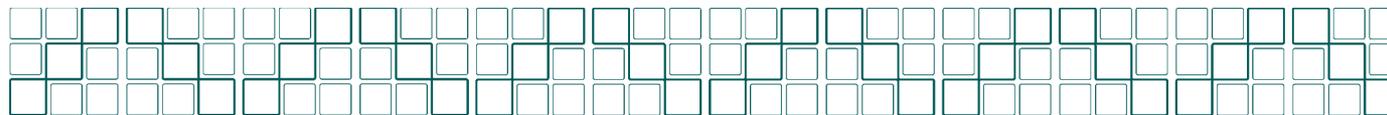
- **Sections:**
 - Contact Information (professional; centered at top of page)
 - Education (can include postdoc here)
 - Clinical Experience, Certifications and Licensures
 - Professional Experience (Avoid NIH jargon)
 - Honors and Awards (pre- and postdoctoral)
 - Grant funding (An IRTA is not a grant)
 - Leadership and Service
 - Teaching and Mentoring
 - Invited Presentations
 - Publications
- Logical order – based on the position and on your experiences
- Clean and simple to read!



Education

EDUCATION:

- 2003-2010 Postdoctoral Fellowship, National Human Genome Research Institute**
Postdoctoral advisor: William J. Pavan, Ph.D.
- 1997-2003 Ph.D., Biological Chemistry, Johns Hopkins University School of Medicine**
Dissertation advisor: Denise J. Montell, Ph.D.
- 1989-1993 B.S., Biology, Tufts University**



Liberal Arts Position

Teaching Experience

General Chemistry Adjunct Faculty Member, 8/2008–5/2009
Hood College, Frederick, MD

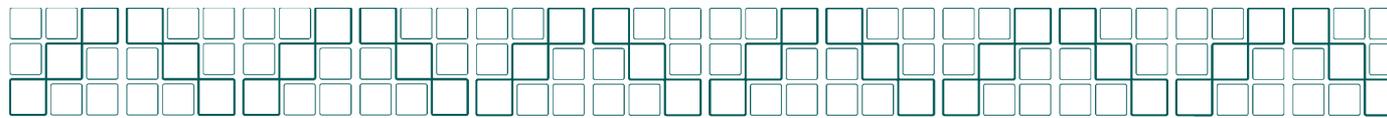
- Taught freshman and sophomore students through active participation and “discovery” exercises; class size 14–28 students
- Prepared and graded quizzes, examinations, and laboratory activity datasheets
- Prepared lesson plans and handouts to highlight important principles in General Chemistry
- Advised students within the classroom, lab, and office hours to reinforce concepts

General Chemistry I Laboratory Instructor, 9/2005–12/2005
Mount Holyoke College, South Hadley, MA

- Taught chemistry principles, lab safety, and basic experimentation for freshman students
- Prepared brief chalk talks covering the background for the day’s experiments
- Worked directly with students to answer questions and provide scientific guidance

ASPIRE Co-coordinator, 9/2003–1/2005
University of Massachusetts, Amherst, MA

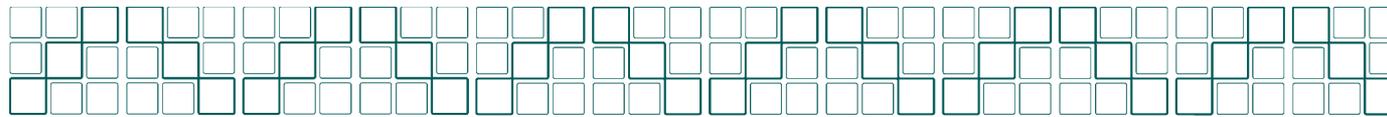
- Designed brief lectures on diverse areas of polymer science for high school students
- Designed and implemented fun new experiments to explore polymer synthesis, properties, and characterization
- Modified, expanded and created new handouts containing experimental procedures and relevant background material with real-life examples
- Created a new website for the Outreach and ASPIRE programs



Research-Intensive Position

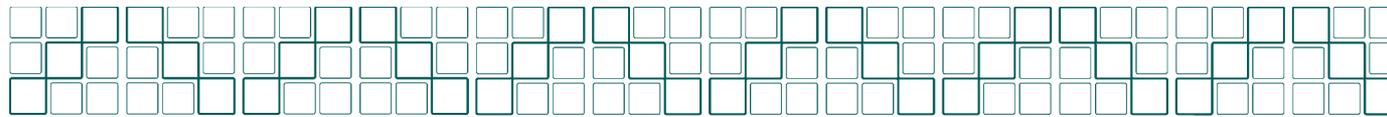
TEACHING and PROFESSIONAL EXPERIENCE:

- | | |
|-----------|---|
| 2008-2009 | Lead Instructor, Molecular Biology and Genetics, FAES NIH Graduate School |
| 2007-2009 | Instructor, Molecular Biology and Genetics, FAES NIH Graduate School |
| 2007-2009 | Mentor for summer students |
| 2002-2003 | NSF Teaching Fellow, Dunbar High School, Baltimore, MD |
| 2000-2001 | Teaching assistant, Johns Hopkins Medical Students, Metabolism and Embryology |
| 2000 | Teaching assistant, Johns Hopkins Graduate Students, Genetics |
| 1999-2001 | Mentor for undergraduate students |
| 1993-1997 | Biologist, National Heart Lung and Blood Institute, Laboratory: James R. Sellers, Ph.D. |



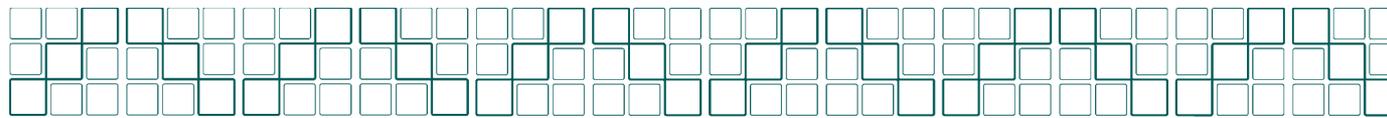
Letters of Recommendation

- 3 or 4; typically your PhD advisor, postdoc advisor & collaborator(s)
- Ask far in advance - be sure the letter will be VERY strong
- Provide your CV and other helpful information
- Provide information on the positions
- Follow-up after 1 month
- Consider providing letters even if not requested



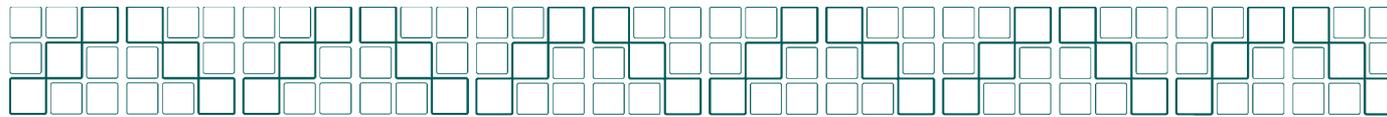
The Research Plan

- A summary of your research achievements and a proposal for up-coming research
 - Looks backward AND forward
- Your goal is to highlight your successes and convince them there are many more to come



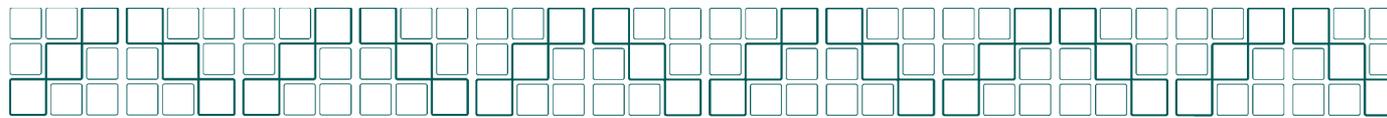
What We Expect To See

- Background
 - Focused on the research field, not on you
- Past and current research
 - Key results, importance, promising directions, promising outcomes
 - Focus on your most relevant work
- Research agenda (~5 years)
 - Short and long-term goals
 - Discussion of model systems, major strategies and approaches
 - Not a grant application, but takes funding into account
- Relevance
 - Not just scientific, also fit for the specific department



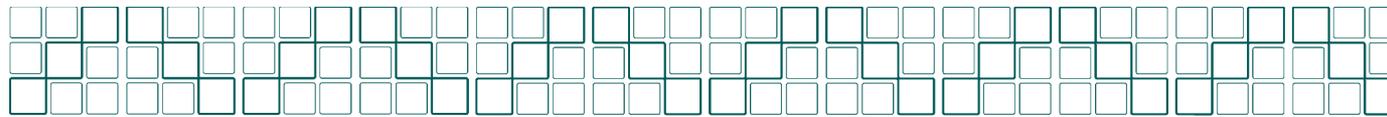
Research Plan - Formatting

- Average length is 2 - 4 pages, varies by discipline
- Two major styles
 - Chronological
 - Thematic
- Helpful to:
 - Use section headings to guide the reader
 - Include one or two figures
 - Personalize to the position
 - Include a short executive summary
- Make it easy to read - wide margins with 1 1/12pt font; bold key points
- Carefully edit & get significant input from others



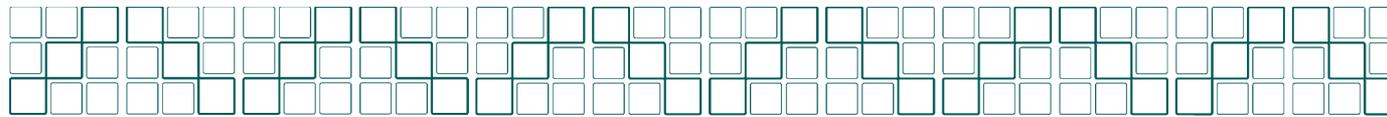
Strategies For Writing Your Research Plan

- Consider major accomplishments that you want everyone to know about
- Think how you will develop your work over the next 5 years
- Then think bigger to help refine your long-term direction
- Look hard for flaws and technical challenges; consider alternatives
- Consider how your ideas “fit” grant applications; if you have funding point out what is in the grant
- Write an “executive summary” that pulls it all together



What You Are Trying To Convey in Your Research Plan

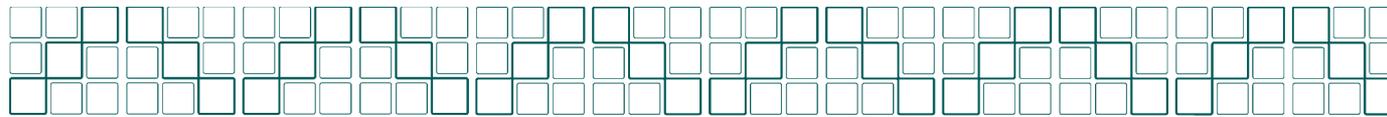
- Importance of your research
- Focus
- Independence
- Creativity
- Sophistication
- Realism
- Clarity
- Fundability



Common Criticisms of Research Plans

- Overly ambitious
- No clear direction
- Work not placed in a broader context
- Poorly written
- Doesn't address fit with the department
- Requires facilities/equipment not easily available

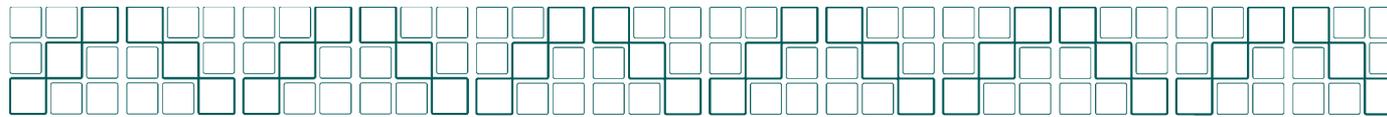
See: http://sciencecareers.sciencemag.org/career_development/previous_issues/articles/1820/writing_a_research_plan/



Teaching Statements

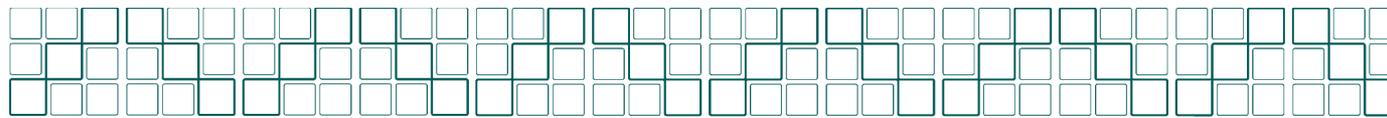
- A narrative that includes:
 - your personal beliefs of teaching and learning
 - a description of how you teach
 - a justification for why you teach that way

- May be part of a larger teaching portfolio
 - Class syllabi
 - Student reviews
 - Details of mentorship and non-classroom teaching



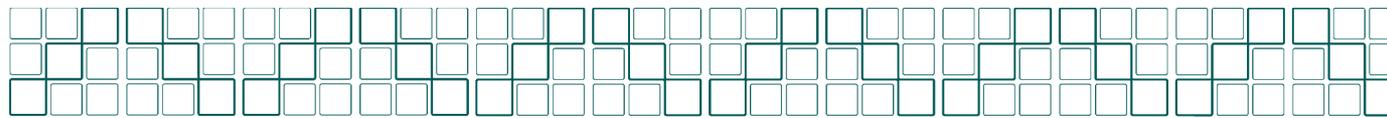
Successful Teaching Statements:

- Show clear evidence that you “walk the walk”
- Are student-centered
- Are attuned to differences in learning styles and abilities
- Demonstrate your ability to reflect about your role as a teacher
- Convey your enthusiasm for teaching
- Are well-written, clear and jargon-free



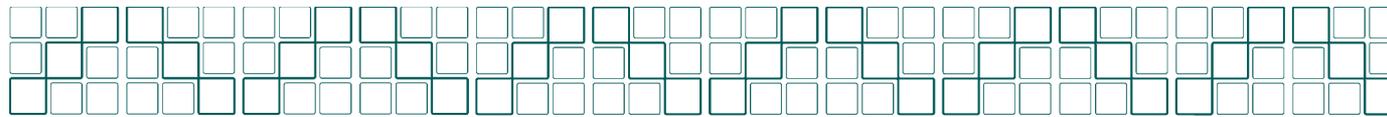
Questions To Consider: Classroom Teaching

- How do I believe students learn best?
- What types of assignments and classroom activities do I use to help students learn?
- How do I evaluate if students are making progress?
- How do I accommodate different learning styles in my classroom?
- How do I help students understand the implications and significance of what they are learning?
- How do I insure that students feel welcome in my class?
- How do I address cultural, social, and/or gender issues in the classroom?
- What have I learned from prior teaching experiences?



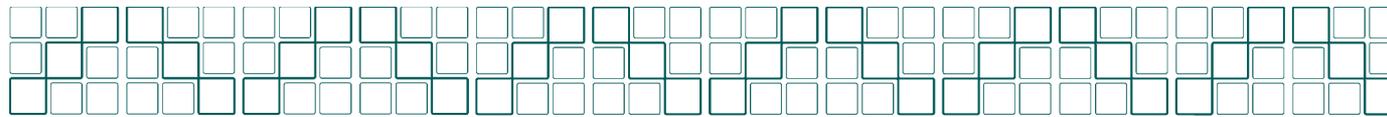
Questions To Consider: Lab-based Teaching

- How do I believe students learn best?
- How do I organize interactions with my students?
- How do I select and shape student projects?
- How do I evaluate students progress?
- How do I address the range of learning styles among students in my research group?
- How do I help students understand the implications or significance of what they're learning?
- How do I address ethical issues and help students appreciate the role of research in society?
- How do I insure that all students feel welcome in my research group?
- What have I learned from prior experiences?



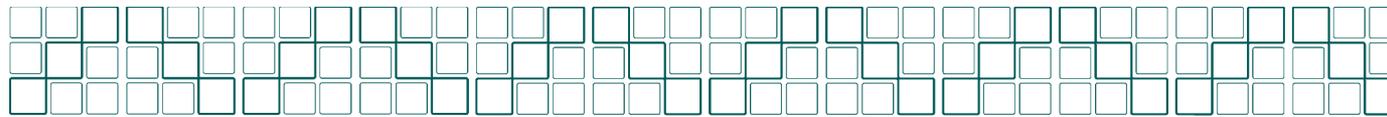
Some Details About Teaching Statements

- Generally 1 - 2 pages in length
- No standard formatting or required content
- Should reflect your teaching style and personality - write in the first-person, present tense
- Should show that you have considered the student body at the institution
- Important to give examples throughout



Common Criticisms of Teaching Statements

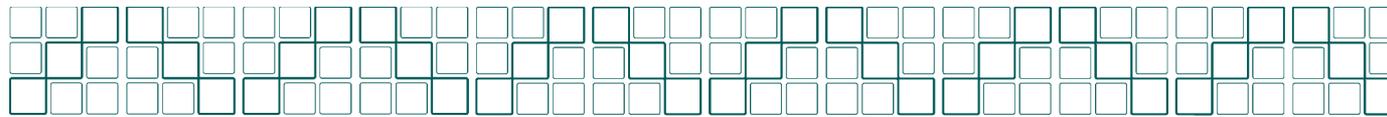
- Lacks experience to back-up ideas
- Assumes all students learn the same way
- Does not reflect the needs of the students/department
- Demonstrates rigid views of learning
- Does not show ability to self-reflect and learn
- Research goals are inconsistent with student needs
- Poorly written



Need Two Jobs?

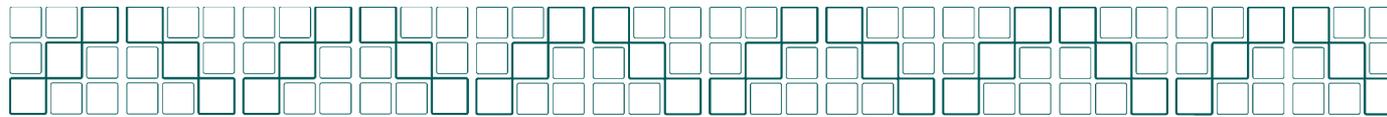
- No standard strategy
- Best not to mention in cover letters, but should be discussed with dept chair or head of the search committee early in the process
- When it comes up
 - Be positive
 - Ask about local consortia/agreements that might help ((see <http://www.hercjobs.org>)
 - Be clear about types of positions your partner will accept, but try to be/appear as flexible as possible

Recommendations on Partner Accommodation and Dual Career Appointments (2010), AAUP at <http://www.aaup.org/AAUP/comm/rep/dual.htm#10>



NIH Resources

- Your mentors and colleagues who have served on search committees
- Your Training Directors
- Other Academic CAT Track lectures
- IC and OITE writing, grant writing, pedagogy; leadership and management courses
- Videocasts of prior OITE workshops (training.nih.gov)



Contact Me

- For examples of successful job packets from NIH fellows:
 - Email milgrams@od.nih.gov
 - Subject = SEND EXAMPLES
- To make an appointment to discuss your job materials:
 - Email milgrams@od.nih.gov
 - Use your last name in your file name (one file please!)
 - Subject = MATERIAL REVIEW