Career Options in Sciences: Academia and Industry

INNOVATION RESEARCH LAB WORKSHOP NOVEMBER 15, 2018 MARIANA HAEDO

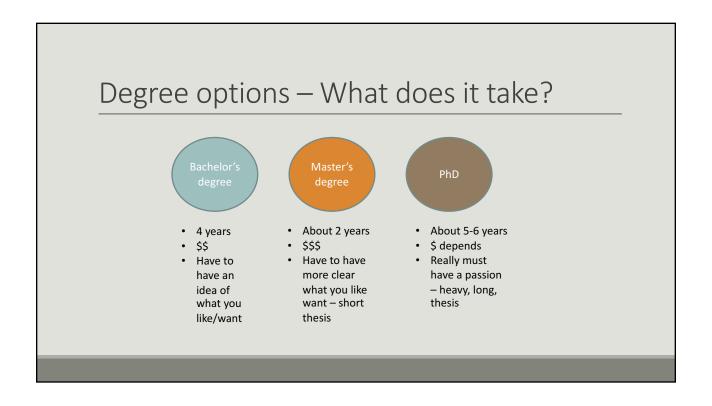
Objectives and Content

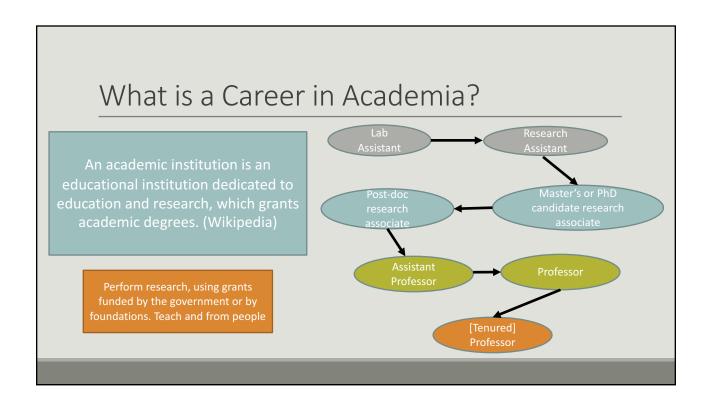
Main objectives of this workshop:

- Clarify on degree types and career types in STEM careers
- Suggest ways to discover what STEM career path you would like to take

Content covered in this workshop:

- ■Degree options What does it take?
- •What does a career in academia mean?
- •What does a career in industry mean?
- •What does a career in engineering for the government mean?
- Interviews with people that followed STEM careers
- Suggestion for an approach on how to find out what to do with your career





What is a Career in Industry? One role, but usually many hats Risky Startups **Exciting** In general, higher paying, few benefits Startups – funding comes from Very defined roles investors New learning opportunities may be reduced Public companies – funding **Public** Less risky, in general companies May or may not be exciting In general, lower paying, but great benefits

What is a Career in Industry? (cont'd)

- The career ladder in industry is different than in academia
- Positions will vary according to the STEM field you're in. Examples:
 - **Field positions:** You don't work in an office, you work on site where equipment you have expertise in is at, as a representative of your employer. This may require travel, typically.
 - Managerial positions: You will manage people, while being knowledgeable in the field of the people you're managing.
 - **Non-managerial positions:** You work in your field, and your title may change according to the level of knowledge or experience you have.

What is a Career in a Government Institution?

This might be of particular interest to those looking into engineering

Government Institutions include city, state and federal offices.
Each will vary in their rules and what they offer. Budgeting for positions and what can be done will depend on the current office

Degrees typically sought for government positions:

- Bachelor's degree in Science of Engineering
- Degrees in Computer Sciences
- Degree in Genetic Engineering

Interviews

- Interview with Carlos Garcia, Chief Technical Officer at Rakuten Aspyrian https://youtu.be/9XTZNyHdXz0
- Interview with Ahiram Rodriguez, Associate Scientist at Rakuten Aspyrian https://youtu.be/H8_qbLN3_4g
- Interview with Melissa Carrillo, Clinical Programmer I at Samumed https://youtu.be/c6Xym-dBvlU
- Interview with Jesus Zaragoza, GxP Systems Supervisor at Navigate BioPharma, A Novartis Company https://youtu.be/mT8zTnu8Nj0

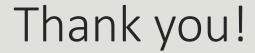
Next steps - Look at Job Positions and Network

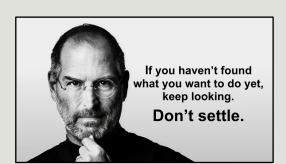
When you look at the positions, pay attention

- Titles/Degrees needed
- yourself doing this?)

- you're interested in and ask them for an informational interview
 Look at your University's resources

Questions?





Additional Resources

- Check your School's resources
 - Career Resources
 - Mentoring programs (e.g. Aztec Mentor Program at SDSU)
- Societies of the profession your interested in
- Internships