



ISPE

“Catalyst For Change”

**Advancing your career
in the pharmaceutical and
biotechnology industry**

**Research Position Workshop:
Tuesday, October 14th 7-8pm**

ENGINEERING PHARMACEUTICAL INNOVATION



Why do research?

- All science majors will participate in research at some point in their career
- Practical experience, helpful for future positions
- Get to know a faculty member/professor



How to get started...



1. Find an area of interest



“I like turtles”

Any field has numerous subtopics

- Research all aspects of a given subject
- Find something that really interests you

Places to look

- Look up professor's research
- Look through other departments
 - Biology, Chemistry, Nanoengineering, MAE, etc.
 - Other institutions: UCSD Medical School, Salk Institute, Scripps, etc.
- BMES Lab Fair
- Programs
 - Academic Internship Program
 - Faculty Mentor Program
 - 199 Independent Research

“I am really interested in the effects of toxic chemical wastes on developing turtles”





2. Contact the Professor or Lab Manager

Pick a few labs you are interested in

- Read through published papers
 - At least 2 papers ideally
- Formulate questions about these papers

Have a really good understanding of the lab's focus

Make your initial contact

- If you know where their office is, drop by their office
 - Be prepared to be turned away
 - Try to schedule another appointment
- If not, send an email to express your interest

The Email

- Introduce yourself, your major, year, etc.
- State your purpose for contacting them
- State why their research is relevant to you
 - What are your short/long term goals?
- Attach your resume
- Ask if you can set up an appointment to discuss the possibility of working with them

Always be professional, polite, and concise

The Email

- Always follow up
- Ask if there are other openings in different labs

NEVER SEND A MASS EMAIL

Example

Dear Dr. Splinter,

My name is Zombie Kid and I am a second year Chemistry Major at UCSD interested in studying genetic mutations caused by industrial water system pollution. Through the Chemistry Department's research tumblr I found that your research group studies the affect of chemical mutagens on turtles. After reading your most recent published work "INSERT AMAZING TITLE HERE" I was particularly fascinated by how you utilized GREEN-OOZE by Industrial Waste Galore LLP. to induce mutagenesis in developing turtles. What was particularly interesting was how there was an increase in motor coordination, which led to the development master ninjitsu turtles.

I am very much interested in your research as it holds direct relevance to my overall interest in studying genetic mutations caused by chemical mutagens. I have taken CHEM L33T, BIBC 102, and TOXI 235091, which were a chemical mutagens lab, animal physiology, and a toxicology course on industrial waste products, respectively. I believe this classes offer the fundamental knowledge necessary to conduct meaningful research in your lab. I am wondering if I could meet you at a time most convenient for you to discuss the possibility of working in your laboratory as an undergraduate researcher.

Thank you for your time and I will be looking forward to your response!

Best regards,

Zombie Kid



3. The Meeting



Be ready to...

- Dress professionally and bring your resume
- Talk about their research and why it interests you
- Explain your short/long term goals and why their research is relevant to your goals
- If asked for experience, mention ANY relevant experience
 - Do not underplay your knowledge/skills
- Ask for suggested reading and say you would like to come back in a week

Resources

- Biological Sciences Research Opportunities
 - <http://biology.ucsd.edu/publicinfo/pc?action=199list>
- Jacobs Engineering Undergraduate Research
 - http://www.jacobsschool.ucsd.edu/faculty/research_areas.shtml
- Chemistry/Biochemistry
 - <http://www-chem.ucsd.edu/research-facilities/index.html>
- Port Triton:
 - <https://ucsd-csm.symplicity.com/students/>
- Undergraduate Research Portal:
 - http://urp-app.ucsd.edu/profiles/sign_in

Student Panel

Questions???



Announcements

LRP

- Fill out the application that has been sent to your emails
 - Contact Neeraja for any questions
 - Send it to ispe.ucsd@gmail.com
 - Deadline: SUNDAY, 11:59pm, OCT. 26TH
- Interview with the VP: Neeraja Ravi

Mentorship Program

- Online Application Deadline: October 24th
- Accepting applications NOW, preference given to those applying earlier.
- Interviews for program in early November
- Attend Mentee Guidelines Meeting in Late November
- Attend ISPE-organized event once per quarter
 - Mentor-Mentee Induction Ceremony in January
 - Closing Ceremony during Spring

Resume/Interview Workshop

- Tuesday October 21th, 6:30-8pm
- Location: TBA
- *With engineers from **Genentech!***
- Free Food!

Questions/Comments/Concerns?

Visit the UCSD ISPE Website at
ispeucsd.weebly.com

Or Email Us at
ispe.ucsd@gmail.com