

 A potential advisor has lots of publications, but the coauthors are all academics (e.g., other professors). Their lab website shows little collaboration with folks outside of academia and no internship opportunities..

RESEARCH TRACK

1. In your initial email you want to CONCISELY convey a) your understanding of the PI's research, b) your intentions, and c) your experience.

- a. Familiarize yourself with the research presented on their lab website and read a couple of their rece Reference these in the email and, whenever possible, suggest an avenue of future research that related their work and interests you (i.e., your potential project in their lab). [2 sentences]
- b. Explicitly state what you are interested in accomplishing in their lab (e.g., MS thesis) and what care hope to prepare for in doing so. [1 sentence]
- c. Mention the ways that your experience and education would make you an asset to their lab and att CV. [1 sentence]

2. In your initial conversation your main goals should be to get a sense for the PI's mentoring strategy, lal and lab/departmental resources. Here are some important questions to get you started:

a. What is your graduate training/mentoring philosophy? Is your lab team oriented - do you have lab/group

- b. What are the expectations for time commitment/productivity? How is paper authorship determined?
- c. How interdisciplinary is your research? Will I be exposed to people with different sets of expertise?
- d. What have your students gone on to do? (if not on website)
- e. How long does it take for a grad student to complete a PhD? Masters? (if not on website)

f. What projects are available? Are they independent or collaborative? (part of this should be on website but important to discuss this to get a sense of your potential advisors' passions and communication style)

g. Do most of your students work in your lab or in the field? What type of instrumentation is available in th h. I read your most recent paper and I did not understand X can you explain why you did that experiment? allow you to assess if the mentor can come to your level of understanding and raise it (communication).

i. How do you feel about non-research careers for PhDs or industrial research careers? Does the departmer any guidance on this? Even if you are convinced you want to become a professor this is an important quest because most graduates end up pursuing jobs outside of the classic professor track.

3. Your initial email to current students will be similar to the advisor email but more informal. Briefly intro yourself and your intentions (e.g., applying for MS program to join the lab). Often lab members will have a about their research on the lab website – if so, you can reference this and tie it into your own thinking and goals. Your goal here is to get a genuine opinion of the lab culture and the students in it through a call or zo meeting with current/former lab members. Keep this email short. [2-3 sentences]

4. As with the advisor meeting, your conversation with lab members should explore the advisors mentor strategy, lab culture, and lab/departmental resources – how do student experiences compare with the ad vision? In addition to the questions posed for the advisor meeting above, we suggest the following:

a. Would you recommend this lab? Why? What advice would you give to a student entering the lab?

b. Does the PI keep your best interests in mind? Do you feel that you are developing into a good scientist in Do they encourage your own interests, as opposed to only his or her own?

c. Does the PI encourage and support students in applications for grants? Does the PI have their own fundi summer research stipends).

d. How does the PI handle it when the project has setbacks or isn't working?

e. Does the department/university offer an inclusive and welcoming environment for non-traditional studer minoritized students? What resources are made available to support non-traditional students, minoritized

f What level of your participation for deciding directions for your project is expected/allowed?

g. Do grad students work primarily with a Post-Doc, other students in the lab, with the PI or on their own? work in the lab or from home?

h. Do you feel that the PI has enough time to give everyone's project sufficient attention? Do they write let recommendation promptly? Or are they too busy?

i. Does the PI help students find post-docs, etc. after graduating from the lab?

INTERNSHIP TRACK

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er you tach your	programs/internships that interest you. [2 sentences] b. Explicitly state what you are interested in accomplishing in their lab (e.g., MS non-thesis) and what career you hope to prepare for in doing so. [1 sentence]
	b culture,
o meetings?	a. What is your graduate training/mentoring philosophy? Is your lab team oriented - do you have lab/group meetings and/or projects?
	b. What are the expectations for time commitment/productivity?
	c. How interdisciplinary is your work? Will I be exposed to people with different sets of expertise and from non-academic organizations?
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	e. How long does it take for a grad student to complete a Masters typipcally? (if not on website)
e lab?	f. What internships are available? Are they independent or collaborative? (part of this should be on website but it's important to discuss this to get a sense of the PI's passions and communication style)
This will nt provide ion	g. I read your most recent paper and I did not understand X can you explain why you did that experiment? This will allow you to assess if the mentor can come to your level of understanding and raise it (communication).
	h. How knowledgeable are you about non-research careers for MS students? Does the department provide any guidance on this?
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	c. How does the PI handle it when the project has setbacks or isn't working?
ents, students?"	d. Does the department/university offer an inclusive and welcoming environment for non-traditional students, minoritized students? What resources are made available to support non-traditional students, minoritized students?"
	e. What level of your participation for deciding directions for your project is expected/allowed?
Do they	f. Do grad students work together? Do they work in the lab or from home?
ters of	g. Do you feel that the PI has enough time to give everyone's interests and goals sufficient attention? Do they write letters of recommendation promptly? Or are they too busy?
	h. Does the PI help students build their professional networks and find jobs after graduating from the lab?

website and cts in the email out or the -thesis) and what position and oring strategy, you started: bu have pertise and from ebsite) uld be on cation style) hat experiment? ise it partment ormal. Briefly en lab members and tie it into culture and the email short. [2mentoring npare with the ggest the ng the lab? good scientist -traditional ional students, wed? attention? Do