PRIORITIZING RESEARCH MENTOR ROLES

Mentee Version

Learning Objectives

Trainees will:

c Identify the different roles that research mentors can play and prioritize those roles based on needs.

c Establish and align expectations with a mentor(s).

Prioritize the roles you expect your mentor to perform with #1 being the most important role. List other people or resources that could serve these roles for you during your training.

Role	Priority	Who else could serve this role in your training during graduate school?
Teach by example		
Train you in disciplinary research		
Improve your writing and communication skills		
Provide funding		
Provide growth experiences		
Help build your self-confidence as a researcher		
Promote professional behavior		
Inspire		
Offer encouragement		
Assist with advancement of career		
Facilitate networking with colleagues		
Other:		
Other:		

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PRIORITIZING RESEARCH MENTOR ROLES

Mentor Version

Learning Objectives

Trainees will:

c Identify the different roles that research mentors can play and prioritize those roles based on needs. \mathbf{c} Establish and align expectations with a mentor(s) and mentee(s)

c Establish and align expectations with a mentor(s) and mentee(s).

Prioritize the roles you expect to perform as a mentor for your mentee with #1 being the most important role. List other people or resources that could serve these roles for your mentee during their training.

Role	Priority	Whoelsecould alsoserve this role for your mentee during their training?
Teach by example		
Train you in disciplinary research		
Improve your writing and communication skills		
Provide funding		
Provide growth experiences		
Help build your self-confidence as a researcher		
Promote professional behavior		
Inspire		
Offer encouragement		
Assist with advancement of career		
Facilitate networking with colleagues		
Other:		
Other:		

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ALIGNING MENTOR AND TRAINEE EXPECTATIONS

Learning Objectives

Trainees will:

- Understand that their expectations of their research mentoring relationship may be different from their mentors.
- Establish an open line of communication with their mentor in order to address any differences and align their expectations.

Assignment

- 1. Answer the questions on the Research Trainee Expectations worksheet.
- 2. Meet with your mentor to discuss the questions and to align your goals and expectations for the research experience. Send the Research Mentor Expectations worksheet to your mentor before the meeting so that he/she can prepare.
- 3. Trainees and mentors should tailor their discussion to the specific needs of their relationship.
- 4. After the discussion, complete the Mentor-Trainee Expectation document together.

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RESEARCH TRAINEE EXPECTATIONS

- 1. Why do you want to do research?
- 2. What are your career goals? How can this research experience and the mentor-trainee relationship help you achieve them?
- 3. What would success in this research experience look like to you? What would you like to achieve:
 - a. By the end of your 1st year?
 - b. By the end of your 3rd year?
 - c. By the time you complete your degree?
- 4. How many hours per week and at what times/days do you expect to do your research?
- 5. What other commitments or obligations will you have during graduate school (group meetings, teaching, family, religious, community, etc.)? How many hours will these take? How will you schedule around these commitments?
- 6. Assuming a good fit, how long do you expect to work with this research group?
- 7. What, if any, specific technical or communication skills do you expect to learn as part of the research experience?
- 8. How do you learn best (written procedure, verbal instructions, watch and repeat, etc.)? What can your mentor do to help you learn the techniques and skills in a timely manner that you need to be successful in your research lab? What can you do before you start in the lab to allow you to be successful in this research group?
- 9. Once you are trained in basic techniques, the goal should be to gain independence. What can you do to gain independence in your research? How long do you expect this transition to take?
- 10. What role do you want your mentor to take throughout your undergraduate career? For example, would you prefer that your mentor is hands-on throughout your research training? Or do you prefer a more hands-off approach to being supervised?
- 11. How will you document your research results? Is there a specific protocol for keeping a laboratory notebook in your research group?
- 12. To whom do you expect to go to if you have questions about your research project? Does your mentor expect you to come solely (or first) to them, or should you feel free to ask others in the research group? If others, can your men-tor identify those in the group who would be good resource people for your project?
- 13. Are you comfortable with the methodology used in the lab? Does it involve the use of animals, for example? Does it involve lengthy field trips where you might be isolated with other researchers for weeks at a time? How do you feel about that?
- 14. Is the research that you will be involved in confidential? Are you allowed to discuss your project with other individuals outside of your laboratory?
- 15. What role will your mentor play in the development of your writing skills? Will they provide feedback and guidance on numerous drafts or will they only want to provide feedback on the final draft? If your mentor only wishes to read final drafts of writing, are there others in the research group who are willing to provide feedback on earlier drafts?
- 16. Do you know all the institutional safety or ethics training that is required to work in your research project? Discuss the required training with your mentor and establish a deadline by which you should complete it.
- 17. If you have previous research experience, what skills do you expect to bring to your new research group?

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RESEARCH MENTOR EXPECTATIONS

- 1. Why do you want to mentor an undergraduate researcher?
- 2. What are your research goals? How can this research experience and the mentor-trainee relationship help you achieve them?
- 3. What would success for your trainee look like to you? What would you like your trainee to achieve:
 - a. By the end of his/her 1st year?
 - b. By the end of his/her 3rd year?
 - c. By the time he/she completes his/her degree?
- 4. How many hours per week and at what times/days do you expect your trainee to do research?
- 5. Assuming a good fit, how long would you like your trainee to remain with the group?
- 6. What, if any, specific technical or communication skills do you expect your trainee to learn as part of the research experience?
- 7. What level of independence do you expect your trainee to achieve, once basic techniques are learned? What can your trainee do to gain independence in research? How long do you expect this transition to take?
- 8. What is your mentoring approach? Once your trainee has learned the techniques and procedures used in your lab, do you prefer to watch your trainee closely, walking them through all the steps, or do you prefer a more hands-off approach?
- 9. How will your trainee document research results? Is there a specific protocol for keeping a laboratory notebook in your research group?
- 10. To whom should your trainee go if they have questions about your research project? Do you expect them to come to you solely (or first), or should they feel free to ask others in the research group? If others, who would be good resource people for their research project?
- 11. What are your expectations for your trainee's level of comfort with the methodology used in the lab? For example, does your research involve working with animals, lengthy field trips, or working in isolation with other researchers, and is your trainee comfortable with this?
- 12. Will the research that your trainee will be involved in be confidential? Are they allowed to discuss your project with other individuals outside of your laboratory? What are your expectations?
- 13. What role will you play in the development of your trainee's writing skills? Will you provide feedback and guidance on numerous drafts or do you only want to provide feedback on the final draft? If you are only willing to read final drafts of writing, are there others in the lab who are willing to provide feedback on earlier drafts?
- 14. Discuss the institutional safety or ethics training that is required for your trainee to work on their research project and establish a deadline by which they should complete it.
- 15. If a trainee has previous research experience, is there anything that you need to share about this research group that is unique and that the trainee should be aware of?

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MENTOR-MENTEE TRAINEE EXPECTATIONS AGREEMENT

Trainee (print)	Mentor (p	print)
This agreement ou	utlines the parameters of our work together on this rese	arch project.
 Our major goa A. Proposed re B. Trainee's pe C. Mentor's p 	oals are: research project goals – personal and/or professional goals – personal and/or professional goals –	
2. Our shared vis	ision of success in this research project is:	
3. We agree to w	vork together on this project for at least	semesters/years.
4. The trainee wi	vill propose their weekly schedule to the mentor by th	e week of the semester.
If the trainee r the mentor at	must deviate from this schedule (e.g., to study for an t least (weeks/days/hours) before the	upcoming exam), they will communicate this to change occurs.
5. On a daily bas	isis, our primary means of communication will be thr	ough (circle all that apply):
face to face/ph	hone/email/instant messaging/	
 6. We will meet a. (Circle one b. In preparat c. In preparat 	t one-on-one to discuss our progress on the project minutes time(s) per month. ae): It will be the (trainee's/mentor's) responsibility to a ution for these meetings, the trainee will: ation for these meetings, the mentor will:	and to reaffirm or revise our goals for at least schedule these meetings.
 7. At these meeting to improve or a. written evan b. a verbal evan c. other 	tings, the mentor will provide feedback on the trained r progress to the next level of responsibility through a raluation. /aluation.	e's performance and specific suggestions for how
8. The trainee is	s expected to participate in the following (journal club	o, teaching commitments, etc.).
9. When learning (write out dire	ng new techniques and procedures, the mentor will tr rections, hands-on demonstration, verbally direct as th	rain the trainee using the following procedure(s) ne trainee does the procedure, etc.):
10. The proper pr	rocedure for documenting research results (laboratory	notebook) in our research group is:

The notebook will be checked ______ (e.g., weekly/monthly).

- 11. If the trainee gets stuck while working on the project (e.g., has questions or needs help with a technique or data analysis), the procedure to follow will be:
- 12. The standard operating procedures for working in our research group, which all group members must follow and the trainee agrees to follow, include (e.g., require institutional training, wash your own glassware, attend weekly lab meetings, reorder supplies when you use the last of something, etc.):

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- 13. The mentor and trainee have agreed on a mentoring approach, which consists of:
- 14. The mentor and trainee have discussed the methodology used in the lab in detail and the trainee understands what is expected of him/her.
- 15. The mentor agrees to read and revise the trainee's research writing according to the following procedure:
- 16. The trainee agrees not to present any of the research findings from this laboratory in any shape or form without the explicit consent and approval of the mentor.
- 17. Other issues not addressed above that are important to our work together are:

By signing below, we agree to these goals, expectations, and working parameters for this research project.

 Trainee's signature
 Date:

 Mentor's signature
 Date:

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EXAMPLE OF MENTOR-MENTEE TRAINEE AGREEMENT DR. TRINA MCMAHON, UNIVERSITY OF WISCONSIN-MADISON

The broad goals of my research program

As part of my job as a professor, I am expected to write grants and initiate research that will make tangible contributions to science, to the academic community, and to society. You will be helping me carry out this research. It is imperative that we carry out good scientific method and conduct ourselves in an ethical way. We must always keep in mind that the ultimate goal of our research is publication in scientific journals. Dissemination of the knowledge we gain is critical to the advancement of our field. I also value outreach and informal science education, both in the classroom and while engaging with the public. I expect you to participate in this component of our lab mission while you are part of the lab group.

What I expect from you

Another part of my job as a professor is to train and advise students. I must contribute to your professional development and progress in your degree. I will help you set goals and hopefully achieve them. However, I cannot do the work for you. In general, I expect you to:

- ▶ Learn how to plan, design, and conduct high-quality scientific research
- ► Learn how to present and document your scientific findings
- ▶ Be honest, ethical, and enthusiastic
- ▶ Be engaged within the research group and at least two programs on campus
- ► Treat your lab mates, lab funds, equipment, and microbes with respect
- Take advantage of professional development opportunities
- Obtain your degree
- ► Work hard; don't give up!

► You will take ownership over your educational experience

Acknowledge that you have the primary responsibility for the successful completion of your degree. This includes commitment to your work in classrooms and the laboratory. You should maintain a high level of professionalism, self-motivation, engagement, scientific curiosity, and ethical standards.

Ensure that you meet regularly with me and provide me with updates on the progress and results of your activities and experiments. Make sure that you also use this time to communicate new ideas that you have about your work and the challenges that you are facing. Remember, I cannot address or advise about issues if you do not bring them to my attention.

Be knowledgeable of the policies, deadlines, and requirements of the graduate program, the graduate school, and the university. Comply with all institutional policies, including academic program milestones, laboratory practices, and rules related to chemical safety, biosafety, and fieldwork.

Actively cultivate your professional development. UW–Madison has outstanding resources in place to support professional development for students. I expect you to take full advantage of these resources, since part of becoming a successful engineer or scientist involves doing more than just academic research. You are expected to make continued progress in your development as a teacher, as an ambassador to the general public representing the University and your discipline, with respect to your networking skills, and as an engaged member of broader professional organizations. The Graduate School has a regular seminar series related to professional development. The Delta Program offers formalized training in the integration of research, teaching, and learning. All graduate degree programs require attendance at a weekly seminar. Various organizations on campus engage in science outreach and informal education activities. Attendance at conferences and workshops will also provide professional development opportunities. When you attend a conference, I expect you to seek out these opportunities to make the most of your attendance. You should become a member of one or more professional societies such as the Water Environment Federation, the American Society for Microbiology, or the American Society for Limnology and Oceanography.

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► You will be a team player

Attend and actively participate in all group meetings, as well as seminars that are part of your educational program. Participation in group meetings does not mean only presenting your own work, but providing support to others in the lab through shared insight. You should refrain from using your computer, Blackberry, or iPhone during research meetings. Even if you are using the device to augment the discussion, it is disrespectful to the larger group to have your attention distracted by the device. Do your part to create a climate of engagement and mutual respect.

Strive to be the very best lab citizen. Take part in shared laboratory responsibilities and use laboratory resources carefully and frugally. Maintain a safe and clean laboratory space where data and research participants confidentiality are protected. Be respectful, tolerant of, and work collegially with all laboratory colleagues: Respect individual differences in values, personalities, work styles, and theoretical perspectives.

Be a good collaborator. Engage in collaborations within and beyond our lab group. Collaborations are more than just publishing papers together. They demand effective and frequent communication, mutual respect, trust, and shared goals. Effective collaboration is an extremely important component of the mission of our lab.

Leave no trace. As part of our collaborations with the Center for Limnology and other research groups, you will often be using equipment that does not belong to our lab. I ask that you respect this equipment and treat it even more carefully than our own equipment. Always return it as soon as possible in the same condition you found it. If something breaks, tell me right away so that we can arrange to fix or replace it. Don't panic over broken equipment. Mistakes happen. But it is not acceptable to return something broken or damaged without taking the steps necessary to fix it.

Acknowledge the efforts of collaborators. This includes other members of the lab as well as those outside the lab. Don't forget important individuals like Dave Harring at the CFL and Jackie Cooper at CEE.

► You will develop strong research skills

Take advantage of your opportunity to work at a world-class university by developing and refining stellar research skills. I expect that you will learn how to plan, design, and conduct high-quality scientific research.

Challenge yourself by presenting your work at meetings and seminars as early as you can and by preparing scientific articles that effectively present your work to others in the field. The "currency" in science is published papers; they drive a lot of what we do and because our lab is supported by taxpayer dollars, we have an obligation to complete and disseminate our findings. I will push you to publish your research as you move through your training program, not only at the end. Students pursuing a master's degree will be expected to author or make major contributions to at least one journal paper submission. Students pursuing a doctoral degree will be expected to be lead author on at least two journal papers' submissions, preferably three or four.

Keep up with the literature so that you can have a hand in guiding your own research. Block at least one hour per week to peruse current tables of contents for journals or do literature searches. Participate in journal clubs. Better yet, organize one!

Maintain detailed, organized, and accurate laboratory records. Be aware that your notes, records, and all tangible research data are my property as the lab director. When you leave the lab, I encourage you to take copies of your data with you. But one full set of all data must stay in the lab, with appropriate and accessible documentation. Regularly backup your computer data to the Bacteriology Elizabeth McCoy server (see the wiki for more instructions).

Be responsive to advice and constructive criticism. The feedback you get from me, your colleagues, your committee members, and your course instructors is intended to improve your scientific work.

► You will work to meet deadlines

Strive to meet deadlines: This is the only way to manage your progress. Deadlines can be managed in a number of ways, but I expect you to work your best to maintain these goals. We will establish mutually agreed upon deadlines for each phase of your work during one-on-one meetings at the beginning of each term. For graduate students, there is to

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be a balance between time spent in class and time spent on research and perhaps on outreach or teaching. As long as you are meeting expectations, you can largely set your own schedule. It is your responsibility to talk with me if you are having difficulty completing your work and I will consider your progress unsatisfactory if I need to follow up with you about completion of your lab or coursework.

Be mindful of the constraints on my time. When we set a deadline, I will block off time to read and respond to your work. If I do not receive your materials, I will move your project to the end of my queue. Allow a minimum of one week prior to submission deadlines for me to read and respond to short materials such as conference abstracts and three weeks for me to work on manuscripts or grant proposals. Please do not assume I can read materials within a day or two, especially when I am traveling.

► You will communicate clearly

Remember that all of us are "new" at various points in our careers. If you feel uncertain, overwhelmed, or want additional support, please overtly ask for it. I welcome these conversations and view them as necessary.

Let me know the style of communication or schedule of meetings that you prefer. If there is something about my mentoring style that is proving difficult for you, please tell me so that you give me an opportunity to find an approach that works for you. No single style works for everyone; no one style is expected to work all the time. Do not cancel meetings with me if you feel that you have not made adequate progress on your research; these might be the most critical times to meet with a mentor.

Be prompt. Respond promptly (in most cases, within 48 hours) to emails from anyone in our lab group and show up on time and prepared for meetings. If you need time to gather information in response to an email, please acknowledge receipt of the message and indicate when you will be able to provide the requested information.

Discuss policies on work hours, sick leave, and vacation with me directly. Consult with me and notify fellow lab members in advance of any planned absences. Graduate students can expect to work an average of 50 hours per week in the lab; post-docs and staff at least 40 hours per week. I expect that most lab members will not exceed two weeks of personal travel away from the lab in any given year. Most research participants are available during University holidays, so all travel plans, even at the major holidays, must be approved by me before any firm plans are made. I believe that work–life balance and vacation time are essential for creative thinking and good health and encourage you to take regular vacations. Be aware, however, that there will necessarily be epochs—especially early in your training—when more effort will need to be devoted to work and it may not be ideal to schedule time away. This includes the field season for students/post-docs working on the lakes.

Discuss policies on authorship and attendance at professional meetings with me before beginning any projects to ensure that we are in agreement. I expect you to submit relevant research results in a timely manner. Barring unusual circumstances, it is my policy that students are first-author on all work for which they took the lead on data collection and preparation of the initial draft of the manuscript.

Help other students with their projects and mentor/train other students. This is a valuable experience! Undergraduates working in the lab should be encouraged to contribute to the writing of manuscripts. If you wish to add other individuals as authors to your papers, please discuss this with me early on and before discussing the situation with the potential coauthors.

What you should expect from me

I will work tirelessly for the good of the lab group; the success of every member of our group is my top priority, no matter their personal strengths and weaknesses, or career goals.

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I will be available for regular meeting and informal conversations. My busy schedule requires that we plan in advance for meetings to discuss your research and any professional or personal concerns you have. Although I will try to be available as much as possible for "drop-in business," keep in mind that I am often running to teach a class or to a faculty meeting and will have limited time.

I will help you navigate your graduate program of study. As stated above, you are responsible for keeping up with deadlines and being knowledgeable about requirements for your specific program. However, I am available to help interpret these requirements, select appropriate coursework, and select committee members for your oral exams.

I will discuss data ownership and authorship policies regarding papers with you. These can create unnecessary conflict within the lab and among collaborators. It is important that we communicate openly and regularly about them. Do not hesitate to voice concerns when you have them.

I will be your advocate. If you have a problem, come and see me. I will do my best to help you solve it.

I am committed to mentoring you, even after you leave my lab. I am committed to your education and training while you are in my lab and to advising and guiding your career development—to the degree you wish—long after you leave. I will provide honest letters of evaluation for you when you request them.

I will lead by example and facilitate your training in complementary skills needed to be a successful scientist, such as oral and written communication skills, grant writing, lab management, mentoring, and scientific professionalism. I will encourage you to seek opportunities in teaching, even if not required for your degree program. I will also strongly encourage you to gain practice in mentoring undergraduate and/or high school students, and to seek formal training in this activity through the Delta program.

I will encourage you to attend scientific/professional meetings and will make an effort to fund such activities. I will not be able to cover all requests, but you can generally expect to attend at least one major conference per year, when you have material to present. Please use conferences as an opportunity to further your education, and not as a vacation. If you register for a conference, I expect you to attend the scientific sessions and participate in conference activities during the time you are there. Travel fellowships are available through the Environmental Engineering program, the Bacteriology Department, and the University if grant money is not available. I will help you identify and apply for these opportunities.

I will strive to be supportive, equitable, accessible, encouraging, and respectful. I will try my best to understand your unique situation, and mentor you accordingly. I am mindful that each student comes from a different background and has different professional goals. It will help if you keep me informed about your experiences and remember that graduate school is a job with very high expectations. I view my role as fostering your professional confidence and encouraging your critical thinking, skepticism, and creativity. If my attempts to do this are not effective for you, I am open to talking with you about other ways to achieve these goals.

Yearly Evaluation

Each year we will sit down to discuss progress and goals. At that time, you should remember to tell me if you are unhappy with any aspect of your experience as a graduate student here. Remember that I am your advocate, as well as your advisor. I will be able to help you with any problems you might have with other students, professors, or staff. Similarly, we should discuss any concerns that you have with respect to my role as your advisor. If you feel that you need more guidance, tell me. If you feel that I am interfering too much with your work, tell me. If you would like to meet with me more often, tell me. At the same time, I will tell you if I am satisfied with your progress, and if I think you are on track to graduate by your target date. It will be my responsibility to explain to you any deficiencies, so that you can take steps to fix them. This will be a good time for us to take care of any issues before they become major problems.

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BARRIERS TO EFFECTIVE COMMUNICATION

Learning Objectives

Trainees will:

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► Learn strategies for improving communication (in person, at a distance, across multiple mentors, and within proper personal boundaries).

Answer these questions on your own, then pair with a peer and share.

- 1. In what ways and how often do you communicate with your mentor?
- 2. How do you know when communication with your mentor is good?
- 3. What are the signs that communication with your mentor is not good?
- 4. What strategies do you use or would you like to use to improve communication with your mentor when things are not going as well as you would like?

Contributed by A. R. Butz and C. Pfund with information from Pfund, C., Brace, C., Branchaw, J., Handelsman, J., Masters, K., and Nanney, L. (2013). *Mentor Training for Biomedical Researchers*. New York: W.H. Freeman & Co.

A few examples of barriers to effective communication between mentors and trainees are listed below. Write down a solution for each barrier.

Barrier to Effective Communication	Solutions to Overcome Barrier
Your mentor has very little time to meet with you one-on-one.	
Your mentor only provides verbal feedback on your work, and you often fail to catch everything that he/she suggests.	
You perceive the feedback you receive from your mentor as particularly critical.	
You are anxious about asking your mentor questions during meetings.	
English is not your mentor's first language and at times you are unsure that you understand him/her.	
Other:	
Other:	
Other:	

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Getting the Most Out of Your Mentoring Relationship

NMC Conference Workshop

February 7th, 2020

1. Please check one: I am a:		ndergraduate culty	Grad Student Staff		Postdoc Other
2. Overall, how would you rate your experience in	Poor	Fair	Good	Very good	Excellent
this workshop?					
3. How likely are you to		Somewhat			Extremely
recommend this workshop	Not likely	likely	Likely	Very likely	likely
to others?					
4. How likely are you to		Somewhat			Extremely
use what you learned in	Not likely	likely	l ikoly	Very likely	likely
this workshop in the	i vot iikely	intery	LINEIY	very likely	incery
future?					

5. What is one important thing that you are taking away from the session?

6. What is one suggestion that you have for future iterations of this session?

7. Do you have any other comments for or about the facilitator?

Getting the Most Out of Your Mentoring Relationship

Liza Chang, PhD February 7, 2020





A little bit about me...

Liza Chang

She/her/hers

B.S. in Neurobiology, Ph.D. in Biological Psychology

*Biological Sciences background

Research Mentor and Mentee Training Coordinator WISCIENCE, University of Wisconsin-Madison





First Floor 445 Henry Mall Madison, WI 53706 wiscience.wisc.edu

Wisconsin Institute for Science Education and Community Engagement

Vision

Advancing the practice and impact of STEM

Mission

To enhance engagement and strengthen success in STEM through equitable and inclusive initiatives, collaborations, service, and scholarship

A little bit about you!

Name

Role (e.g., undergraduate student, faculty mentor, staff, etc.) What is a quality of mentoring that you value?



Workshop goals:

In this workshop, participants will...

- prioritize their needs as mentees or mentors and consider how to have those needs met.
- consider potential differences in expectations and communication styles between mentees and mentors and how the differences might impact the relationship.
- explore tools and strategies to align expectations between research mentees and mentors.
- learn strategies for improving communication between research mentees and mentors.





Prioritizing Mentor Roles

In pairs / small groups:

- Share your top 3 priorities and explain why.
- Do you think your priorities have changed or will change over time as the mentoring relationship develops? If so, how?



What differences in expectations and communication styles might exist between mentees & mentors?



Aligning Mentor-Mentee Expectations



What are things you would like clarity about expectations around in your mentoring relationship?



Mentor-Mentee Compacts



Barriers to Effective Communication





Please fill out the brief evaluation form. Your feedback is great appreciated!

Feel free to follow-up with me!

Lchang9@wisc.edu



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- And so much more to come!

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Virtual Community Resources

- Virtual Mentorship- MyMentor. Get matched to find your best mentor or mentee, or sign up to do both and nurture your community!*
- Network with our community of over 13,000 participants nationwide!*
- Customize goals for you and your mentor to work on.*
- Online Resumer Builder*
- Virtual Groups*

Go to nrmnet.net today to take advantage of all of these resources!





Entering Research

A training curriculum for undergraduate and graduate research trainees

Entering Research is an evidence-based training curriculum designed to help undergraduate and graduate STEM trainees get the most from their mentored research experiences. Entering Research offers 96 activities that can be used to create new research training programs or be integrated into existing programs. Through activities, case studies, and discussion, research trainees are introduced to important topics and concepts organized around **seven areas of trainee development:**



Research Comprehension & Communication Skills Practical Research Skills Research Ethics Researcher Identity Researcher Confidence & Independence Equity & Inclusion Awareness & Skills Professional & Career Development Skills

We also offer:

- Facilitator Training opportunities: <u>http://bit.ly/2iFk4aE</u>
- Evaluation and Assessment Tools for use with trainees and their mentors: <u>https://cimerproject.org/evaluating-entering-research/</u>
- Opportunities to participate in research on undergraduate and graduate research training interventions
- Consultations on curriculum and implementation plans
- Online community for facilitators of Entering Research: <u>https://my.nrmnet.net/group/index/mXgrH09</u>

Activities from Entering Research are now available on the CIMER website, <u>https://cimerproject.org</u> and from Macmillan Learning: https://store.macmillanlearning.com/us/product/Entering-Research/p/1319263682

Questions? Email enteringresearch@education.wisc.edu



