

1. Fellowship Survey Participation Disclosure

Thank you for participating in this survey about your experience in the GLEON Fellowship Program. Your participation in this survey is completely voluntary. There is no penalty for not participating and no foreseeable risks associated with participation. All of the information, responses and data from you will be de-identified to the fullest extent possible to protect your confidentiality. None of the working data used by the researchers will have your name associated with it. No tracking data (e.g., IP addresses, e-mail addresses) are being collected and data are encrypted to prevent fraudulent use. If you have any questions about the security of these data or your anonymity, please contact Carol Brewer at Prarie.Ecotone@gmail.com.

This survey was designed to be compared with the responses from the GLEON FP presurvey. The results of this survey will be shared with the program directors as well as the NSF as part of the program assessment activities. They also may be shared in project reports and/or other publications and presentations.

We anticipate that it will take approximately 30 - 40 minutes to respond to the questions on this survey, and we look forward very much to your input on all of them. Please note that questions with a " * " require a response. On behalf of the GLEON Fellowship Program, thank you very much for your participation.

**Carol Brewer
Program Evaluator**

2. Fellowship Demographic Questions

* 1. Please enter the password code you received from the program evaluator. If you do not remember your password, please enter your initials and the evaluator will enter your code. Neither your initials or code will be reported to program leaders.

* 2. Please identify your primary and secondary fields of training/expertise.

	Primary	Secondary
Limnology	<input type="radio"/>	<input type="radio"/>
Aquatic Biology	<input type="radio"/>	<input type="radio"/>
Biogeochemistry	<input type="radio"/>	<input type="radio"/>
Ecology	<input type="radio"/>	<input type="radio"/>
Social Science	<input type="radio"/>	<input type="radio"/>
Computer Science	<input type="radio"/>	<input type="radio"/>
Computational Biology	<input type="radio"/>	<input type="radio"/>
Information Technology	<input type="radio"/>	<input type="radio"/>
Database Management	<input type="radio"/>	<input type="radio"/>
Engineering	<input type="radio"/>	<input type="radio"/>
Modeling	<input type="radio"/>	<input type="radio"/>
Mathematics	<input type="radio"/>	<input type="radio"/>
Statistics	<input type="radio"/>	<input type="radio"/>
Science Education	<input type="radio"/>	<input type="radio"/>
Other (please specify below)	<input type="radio"/>	<input type="radio"/>

Other (please specify)

* 3. What is your current educational status? Check all that apply.

- BS or BA Completed
- MS or MA Completed
- PhD In Progress
- PhD Completed
- Postdoc in Progress

Other (please specify)

* 4. The NSF asks that we provide data on the ethnicity of program participants. Please choose all that apply.

- Hispanic/Latino American or Hispanic/Latino
- Asian American or Asian
- Pacific Islander
- Native American
- African American or African
- Caucasian
- Prefer not to answer

Other (please specify)

* 5. Gender (requested for reporting to the NSF)

- Female
- Male
- Transgendered
- Other
- Prefer not to answer

* 6. Please list any professional development workshops or institutes and courses you have participated in during the last year that relate to your GLEON Fellowship.

* 7. In what month and year do you expect to graduate?

* 8. What is your planned career path after completing your current degree program?

3. Research Experience

* 9. How comfortable are you with using the following activities, practices and/or strategies in your research?

	Not at all comfortable	Slightly uncomfortable	Somewhat comfortable	Reasonably comfortable	Exceptionally comfortable
Working as part of a research team in your disciplinary area	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working on interdisciplinary research teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designing and conducting network science within your lab group	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Designing and conducting network science on international teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using globally distributed sensor networks to observe the environment	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Manipulating large data sets from diverse sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrating large data sets from diverse sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Modeling large data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Publishing the results of your research	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicating the results of your research to diverse audiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Playing a leadership role on a team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using systems thinking to solve complex problems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managing "cross-lab" research teams	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

	Not at all comfortable	Slightly uncomfortable	Somewhat comfortable	Reasonably comfortable	Exceptionally comfortable
Working with colleagues from diverse cultural backgrounds	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Working with colleagues from diverse academic backgrounds and fields	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Assessing success of collaborative projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data streaming and IM	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Querying large data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Obtaining data from other sources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Gap filling, aggregation and interpolation of large data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Transforming time and frequency data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Accessing and using distributed computing (HTCondor)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Framing scientific research for public understanding	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Evaluating scientific processes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using Mat-lab	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Using "R"	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Parametric statistics	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nonparametric statistics (Bayesian)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Podio collaboration workspace	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Teleconferencing (e.g., Skype, Wisline, screenshare tools)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
File sharing (e.g., Dropbox, Google docs)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

* 10. Overall, please rate each of the following in terms of the extent they do or could influence how you integrate network science into your current or future research.

	Limits or constrains my research	No Impact on my research	Promotes or supports my research
The availability of useful data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The opportunity collect my own data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Research grant support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Support from my research advisor	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The requirements of my dissertation program	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My statistical knowledge or skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My programming knowledge or skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My mathematical knowledge or skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adequate time for exploring available data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Finding and meeting collaborators	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My motivation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My confidence in using other researcher's data sets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The training I have received in college	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The training I have received from professional development experiences	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Practical wisdom and skills from my research experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The networking platform of GLEON	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

11. Please select all of the responses that apply to the research you have conducted or are now conducting:

	Undergraduate research	Masters degree research program	PhD research program	GLEON Fellowship Program	Other research program (please describe below)
Authored or co-authored a scientific paper published in a peer-reviewed journal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Currently writing or co-writing a paper for publication in a peer-reviewed journal	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Currently have a scientific paper in review or in press	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Wrote a grant proposal to fund my research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received funding for a grant proposal I wrote for my research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presented research results at a national scientific conference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presented research results at an international scientific conference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received local, national, or international press coverage for my research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Received an award or prize for my research	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presented research results to a public non-scientist audience	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Other (please specify)

4. Collaboration and Training Experiences

* 12. How easy is it to get the resources you need for research in your research program?

- Extremely easy
- Very easy
- Moderately easy
- Slightly easy
- Not at all easy

* 13. How often do you lack the skills needed to do your research?

- Extremely often
- Very often
- Moderately often
- Slightly often
- Not at all often

* 14. How effective is the training you receive for the research you are doing?

- Extremely effective
- Very effective
- Moderately effective
- Slightly effective
- Not at all effective

* 15. How much attention does your graduate program give to your professional growth?

- A great deal
- A lot
- A moderate amount
- A little
- None at all

* 16. How much does your research supervisor/advisor inspire you?

- A great deal
- A lot
- A moderate amount
- A little
- None at all

* 17. How helpful is the feedback your research supervisor/advisor gives you about your work?

- Extremely helpful
- Very helpful
- Moderately helpful
- Slightly helpful
- Not at all helpful

* 18. How much does your research supervisor/advisor appreciate differing opinions?

- A great deal
- A lot
- A moderate amount
- A little
- None at all

* 19. How much does your research supervisor/advisor encourage you to collaborate with researchers outside of your lab group?

- A great deal
- A lot
- A moderate amount
- A little
- Not at all

* 20. How effective is the training you receive from your research supervisor/advisor with respect to interdisciplinary collaboration?

- Extremely effective
- Very effective
- Moderately effective
- Slightly effective
- Not at all effective
- Not applicable

* 21. How supportive is your research supervisor/advisor about your participation in the GLEON Fellowship Program?

- A great deal
- A lot
- A moderate amount
- A little
- Not at all

* 22. How often do you work with other researchers at your university?

- Extremely often
- Very often
- Moderately often
- Slightly often
- Not at all often

* 23. How often do you work with other researchers from outside your university?

- Extremely often
- Very often
- Moderately often
- Slightly often
- Not at all often

* 24. Are interactions within your research group positive, neither positive nor negative, or negative?

- Extremely positive
- Moderately positive
- Slightly positive
- Neither positive nor negative
- Slightly negative
- Moderately negative
- Extremely negative
- Not Applicable

* 25. How well do researchers you work with collaborate with each other?

- Extremely well
- Very well
- Moderately well
- Slightly well
- Not at all well
- Not applicable

* 26. In your opinion, what are the three key elements of effective interdisciplinary collaboration?

Key Element 1

Key Element 2

Key Element 3

5. Value of the GLEON Fellowship Program

Please tell us about the value of participating in the GLEON Fellowship Program.

* 27. Please list the THREE most valuable aspects, be they technical tools, leadership skills, or other experiences that you gained from the GLEON FP, and briefly describe why they are most valuable to you.

Most Valuable

2nd Most Valuable

3rd Most Valuable

* 28. In what ways have your experiences in the GLEOP FP been different from those at your home institution?

* 29. In what ways, if at all, has your research changed and/or evolved as a result of participating in the GLEON FP? Please describe with examples of change or evolution in your research.

* 30. How have your professional interactions changed or evolved as a result of participating in the GLEON FP training? Please describe using examples.

* 31. The following two questions relate to future participation in team science as a result of participating in the GLEON FP.

	More Inclined	Neutral	Less Inclined
My motivation to PARTICIPATE in team science in the future	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
My motivation to LEAD team science	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Please explain you answers.

* 32. The following question relates to how you learned during your participation in the GLEON FP. Please estimate the percentage of your learning/training from each of the following sources. Your response must sum to 100%.

Self Taught %	<input type="text"/>
Peers %	<input type="text"/>
Leadership Team %	<input type="text"/>
Other % (please explain below in space provided in question 32)	<input type="text"/>

33. If you chose other in the previous question, please explain (e.g., Bayesian techniques as a result of collaboration with Shannon La Deau; or participation in a leadership workshop at a professional conference)

* 34. How would you characterize the time commitment for participating in the GLEON FP relative to the outcomes that fellows valued (e.g., professional training, submitting manuscripts, etc.).

* 35. Are there any elements of the GLEON FP that you think should be designed or taught differently for future cohorts (e.g., venues for meetings, time at workshops, personnel involved, etc.)?

* 36. In the GLEON Fellowship Presurvey, several learning goals were identified by GLEON Fellows prior to starting the fellowship program. Please indicate the extent to which these goals have been met for you personally.

	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
Expanded professional network	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Learned about collaborative strategies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Applied collaborative skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Expanded programming skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Managed and integrated large databases	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Published one or more manuscripts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

6. Other Fellowship Feedback

37. Would you recommend the GLEON FP? Please explain your reason for your answer.

38. Do you have any additional comments to share about your experience the program?