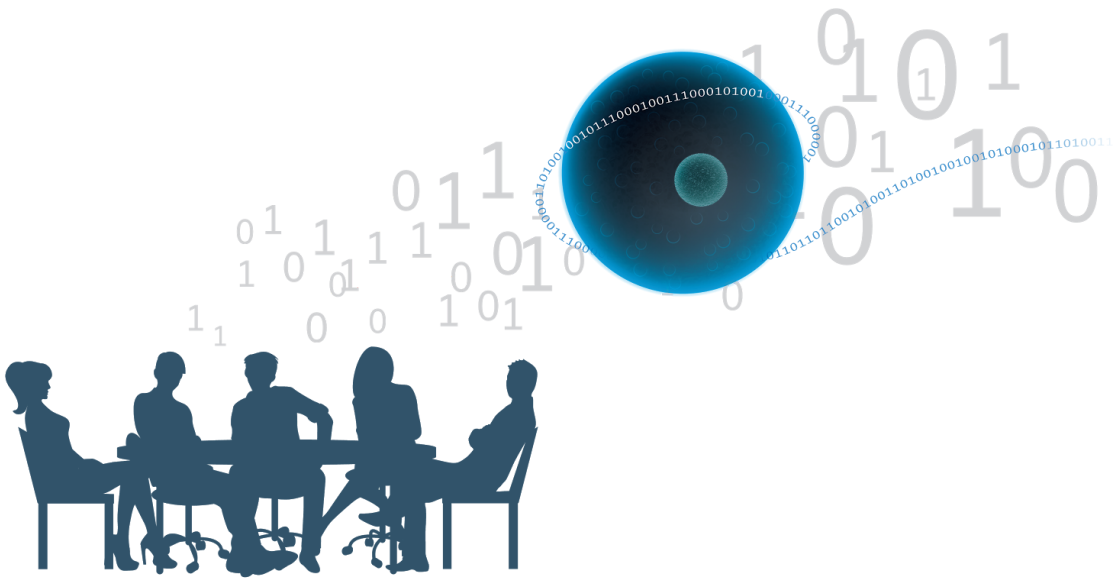
Application for 2018 Data Science Innovation Lab: Mathematical Challenges of Single Cell Dynamics

* Required



2018 Data Science Innovation Lab: Quantitative Approaches to Biomedical Data Science - Mathematical Challenges in Dynamic Single Cell Heterogeneity

Please spend some time reflecting on and responding to the following questions. Your responses will help us determine your suitability for participating in the Innovation Lab.

1. **Please provide a brief summary of your professional background (no more than 200 words).** *

2. **What do you regard as key challenges that society might face in fifteen to twenty years from now relating to the single cell theme of the Innovation Lab? Using relevant example(s) of a research publication, a piece of software, or methodology you have developed, how do you see your expertise and interests contributing to realizing the goal of this Innovation Lab? (No more than 250 words.)** *

Please spend some time considering your answers to the following questions. Your responses (no more than 150 words each) will help us assess your suitability (unrelated to your research track record) for the innovative and collaborative setting of the Innovation Lab.

3. **What is your approach to teamwork?** *

4. **How would you explain your area of interest to individuals with different expertise to your own?** *

5. **The Innovation Lab is especially suited to individuals who enjoy stepping outside their area of expertise or interest, are positively driven, enjoy creative activity and can think innovatively. It is an intensive setting requiring you to develop novel approaches with individuals you may not know. How do you consider yourself suited?** *

6. **What do you hope to gain from participating in this Innovation Lab, personally and professionally?** *

7. **Given your career trajectory and experience thus far, would you consider your expertise to fall more into biomedical or quantitative subject areas (math/stats/numerical techniques)?** *
   A 3 would be considered a relatively equal mix of biomedical and quantitative subject areas.
   Mark only one oval.

	1	2	3	4	5	
Biomedical	◯	◯	◯	◯	◯	Quantitative

8. **Do you currently have access to dynamic single cell related data sets?** *
   If Other, please explain.
   Mark only one oval.

   ◯ I have no data.
   ◯ I have data, but it is not shareable right now with other lab participants.
   ◯ I have a sample of data that is shareable or will be shareable before the innovation lab with other lab participants.
   ◯ I have a full data set that is shareable or will be shareable within a few months with other lab participants.
   ◯ Other:

Please enter your contact information

9. **How did you hear about this event?** *
   Mark only one oval.

   ◯ Online search
   ◯ Social Media
   ◯ @ a conference
   ◯ NIH listserv
   ◯ NSF listserv
   ◯ Professional Society listserv
   ◯ Word of mouth
   ◯ Other:

10. **ORCID ID**

11. **Name** *

12. **Phone number** *

13. **Email** *

Please enter the details of your institution

14. **Organization Name** *

15. **Organization Phone Number** *

16. **Organization Address** *

Please give details of your academic position (e.g. assistant professor, instructor) at the time of the Innovation Lab.

17. **Job Title** *

18. **Date of Appointment** *

Example: December 15, 2012

19. **For each discipline below please indicate your expertise as primary, secondary, auxiliary, or not applicable.** *

If your primary discipline is not included in the below list please add it to the next question.
Mark only one oval per row.

	Primary	Secondary	Auxiliary	N/A
Applied Mathematics				
Artificial Intelligence				
Bayesian Statistics				
Behavioral Science				
Bioinformatics				
Biology				
Biomedical Science				
Biophysics				
Causal Analysis				
Clinical Science				
Cloud Computing				
Computer Science				
Crowdsourcing / Interactive Digital Media				
Data Visualization				
Database and/or Backend Development				
Ecology				
Epidemiology				
Imputation / Missing Data				
Machine Learning				
MEMS / Microfluidics				
Multiscale Mathematics				
Network Analysis				
Pure Mathematics				
Real-time and Non-stationary Data Analysis				
Specific Disease or Disorder Expertise				
UI/UX				
Uncertainty Quantification				

20. **If your primary discipline was not included above please add it below.**