

BIOME 2021 Institute Application: From Pieces to Patterns

Apply here for the 2021 BIOME Institute. This application is for the full BIOME Institute which consists of the Summer Session and Fall Working Groups. More information about the Institute is available here: <https://qubeshub.org/groups/summer2021>

Participant information is collected both for reporting purposes and to ensure that our program includes participants from diverse institutions, geographic locations, and teaching backgrounds.

If you are applying as a team, all team members must complete an individual application.

If you have any questions, please contact Hayley Orndorf (hco1 "at" pitt "dot" edu)

Early bird deadline: April 12, 2021

Final deadline: May 3, 2021

* Required

1. First Name *

2. Last Name *

3. Email address *

4. Institution or Organizational Affiliation *

5. Department *

6. Disciplinary area(s) of focus *

7. Position / Title *

8. Which of the following best describes your primary institution? *

Mark only one oval.

- High School
- Two-year college; including community, technical, and junior colleges
- Minority Serving Institution; including Tribal, HBCU, and HSI
- Four-year college (Primarily undergraduate institution)
- Four-year college (with graduate programs)
- RI
- Other: _____

9. Years of teaching experience *

Mark only one oval.

- 0-3 years
- 4-8 years
- 9+ years
- Other: _____

10. Have you participated in BioQUEST or QUBES professional development events in the past? *

Select all that apply.

Check all that apply.

- BIOME Institute
- Summer Workshop
- Faculty Mentoring Networks (FMNs)
- Incubators
- Workshop at professional conference
- This is my first BioQUEST or QUBES professional development experience.

Other: _____

11. If you are applying as a team, please provide your team member's name(s). All team members must complete an individual application

For example, if you are applying with colleagues from your institution, please list their names here.

12. How did you learn about the BIOME Institute? *

Check all that apply.

Shared by a colleague

BioQUEST Newsletter

QUBES Newsletter

Facebook

Twitter

Other: _____

**Building
Scientific
Worldviews**

How do we help all students feel that they have a place in the scientific endeavor? At the 2021 BIOME Institute, we will explore two ways to accomplish this: through using inclusive teaching pedagogies to build a more diverse scientific community, and through promoting pedagogical practices designed to support development of a holistic scientific worldview. Increasing the diversity of participants in the scientific endeavor can enhance and broaden our scientific worldview, generating new ideas, approaches and solutions to scientific questions. To achieve a scientific worldview, we want to engage students in interdisciplinary science that reflects the reality of modern scientific practice, and students with a scientific worldview should also feel empowered to communicate about science both within and beyond the classroom. The following prompts focus on workshop themes that contribute to an inclusive learning environment and scientific worldviews.

For more information about these ideas, visit <https://qubeshub.org/community/groups/summer2021>

Inclusive Teaching

Inclusive teaching practices include a wide range of ideas, including using open education resources and practices, promoting a sense of belonging, and using Universal Design for Learning practices, all of which make the classroom more welcoming and productive for all students. Awareness of the need for inclusive teaching practices has grown during the pandemic. Many of us have been learning more about these practices by reading books, attending webinars, or engaging in community discussions, and some of us have been able to try out these practices in our teaching.

13. How might inclusive teaching practices make your classroom more welcoming to all students? *

Interdisciplinarity

A complete scientific worldview relies upon interdisciplinary scientific practices. For example, in addition to the clear connections with chemistry and physics, biology has become increasingly quantitative and data intensive, making statistics, programming, and data science an integral part of biology practice.

14. Where do you currently, or where do you see possibilities for, engaging students in interdisciplinary practices in your classroom? *

Scientific Communication

Communication is among the 21st Century skills our students will need to succeed in their careers. The importance of communicating scientific information within and beyond the classroom has only been heightened by the pandemic. Students can practice communicating scientific ideas with their peers through poster sessions, presentations and other means, which reinforces content knowledge while developing communication skills. These skills can also be applied to communicating outside the classroom (i.e. public presentations, outreach, social media, crowdsourcing).

15. Where do you currently, or where do you see possibilities for, engaging students in science communication beyond the classroom? *

16. Opt out of QUBES participant support funds? *

We are fortunate to have NSF participant support funds from the QUBES project, which allows us to offer a significant discount towards the cost of registration for all accepted applicants. If you have the funding to cover the cost of registration and wish to opt out of this discount, just let us know by checking the box below. We appreciate your generosity and will use the funds to support additional participants.

Mark only one oval.

I do not want to request QUBES participant support funds.

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