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## Community Spotlight:



### BIOME 2022 Recap

We had the most amazing time at this year's BIOME Institute [summer session](#) - we were inspired by conversations, the sharing of fantastic resources, connecting with our participants, and watching them connect with each other.

Thank you so much to all of our presenters, discussion bunch leaders, keynote speakers, and everyone else who made the institute so engaging.

[Read our recap](#) for a summary of our keynotes, a list of our fall working groups, and highlighted collections and social media.

[Subscribe to the Community Spotlight](#) to receive the full text each month!

Dear BQ/QUBES

Community,

I am looking forward to getting to know many of you very soon as the Fall Faculty Mentoring Networks, Incubators, and BIOME Working Groups get started, so I wanted to introduce myself as BioQUEST's new Professional Development and Communications Manager.



I am a biologist/ecologist by training, and I have been working in natural history collections for around 15 years and working in education and data literacy for eight years. Most recently, I have been focused on ways to help create more diverse, inclusive, equitable, and accessible STEM communities and spaces.

One event in the fall that I'm looking forward to is our [Partner Summit](#) - save the date for Oct. 7! - where we'll celebrate our partners' accomplishments, make your work with BioQUEST and the QUBES platform more visible, and strengthen and connect our communities.

I hope you'll feel free to reach out this fall with any questions or ideas!

Best,

Molly

[Molly Phillips](#)

BioQUEST Professional Development and Communications Manager

P.S.

If you're coming across this newsletter on the QUBES website, [you can subscribe here](#) to keep in touch!

*In this newsletter:*

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## QUBES Corner

- **QUBES Tips & Tricks - Publish your conference posters and publications (a reprise!):**

As we wrap up professional meeting season, we thought we'd return to this tip about sharing your talks, posters, and teaching resources on the QUBES platform. Publishing those products with BioQUEST is a great way to make them accessible to others, document your scholarship, and build your resume. The QUBES OER Library has a variety of examples, including [workshops](#), [posters](#), and other [conference materials](#). Check out our [May 2022 Community Conversation](#) on this topic for a quick walk through and best practices for publishing.

- **46 open educational resources** were published to the QUBES Library in July! [Browse the new resources here.](#)

- **Featured Resources**

- from [CourseSource: Pesticides in My Smoothie Bowl?](#)

*The authors developed this case study to introduce concepts and processes of ecological and human health risk assessment in pesticide registration by the U.S.*

EPA. <https://doi.org/10.24918/cs.2022.26>

- [Small is Beautiful: OER for Cultural Change in a STEM Institution](#)

*This report serves as a resource for faculty, staff, and students interested in co-creating Open Education Resources (OERs) [...] The authors explore the connections of OERs and their role in social justice at STEM institutions, present research performed at their institution, provide examples of pilot courses where faculty co-created OERs with students, and share key lessons learned throughout this year's focused experiences.* [doi:10.25334/SWMT-8J58](https://doi:10.25334/SWMT-8J58)

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## Event Round-Up

Link directly to featured events below or [browse all events on our calendar](#).

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Aug. 30 - [Q&A with NSF: NSF INCLUDES Program](#)

Aug. 31 - [HHMI Workshop: Using HHMI BiolInteractive Animations to Promote Student Engagement and Learning](#)

Sept. 17 - [HHMI Workshop: Interactive Videos with Embedded Questions: Tools for Engaging Learners to Think Scientifically](#)

Oct. 7 - [BioQUEST Partner Summit!](#)

## BioQUEST News

### Apply for Fall FMNs and Incubators

See the ads for the Fall Faculty Mentoring Networks (FMNs) and Incubators! Sign up today to join a professional development community that will sustain you throughout your semester!

*FMNs:*

#### **UNVEIL-ing FMN**

Are you interested in generating or adopting professional development modules that help students find and successfully apply to undergraduate summer research experiences?

Apply now to join us for the Fall 2022 UNVEIL-ing & BioQUEST/QUBES Faculty Mentoring Network (FMN).



Participants in this FMN will focus on how to integrate and use professional development modules in undergraduate science courses or workshops. Accepted applicants will create and implement modules to teach professional development skills to apply to summer undergraduate research programs, focusing on NSF REU Programs. Participants are encouraged to bring or develop their own modules or find and adapt existing QUBES modules. While creating these modules, members of this FMN will participate in biweekly (every other week) virtual sessions to collaborate with and support others in the network and receive mentoring.

**Applications are due Friday, August 26, 2022.** [Please visit the group page for additional information and instructions on how to apply.](#)

Are you interested in adopting modules that address mathematical skills using a topic in biology? Apply now to join us for the Fall 2022



QB@CC Faculty Mentoring Network (FMN).

Participants in this FMN will focus on how to use data-driven modules in undergraduate mathematics courses. Accepted applicants will customize and implement newly designed biology educational modules from a wide range of topics. While doing this, they will participate in biweekly virtual sessions to collaborate with and support others in the network and receive mentoring.

[Visit our group page to learn more and apply for the Fall 2022 Faculty Mentoring Network!](#) **Applications are due August 31, 2022.** Space is limited.

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### **Project EDDIE: Teaching Scientific Concepts and Quantitative Reasoning Using Large Datasets and Inquiry-Based Learning FMN**

Project EDDIE (Environmental Data-Driven Inquiry & Exploration) is excited to continue collaborating with BioQUEST/QUBES to work with faculty interested in adapting and implementing existing Project EDDIE teaching modules that address scientific concepts and quantitative reasoning using large datasets and inquiry-based learning.



EDDIE modules are designed with an A-B-C structure moving from novice to expert and are adaptable to a range of student levels and course structures. Each module page includes activity goals, step-by-step instructions for implementing the activity, and presentations, handouts and data needed for each activity. Modules are designed to address scientific topics spanning environmental disciplines such as ecology, limnology, geology, hydrology, climate change, and environmental sciences.

Participants in this Fall 2022 FMN will implement a Project EDDIE module and discuss topics such as math anxiety, inquiry-based learning, student motivation, and implementation strategies. The theme of modules we will use this fall: sustainability & climate solutions!

[Learn more and apply.](#) **Deadline for applications is September 1, 2022.**

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### **CourseSource Writing FMN**

Have you developed new evidence-



based teaching activities and/or lessons designed to be taught online in biology or physics undergraduate

education? Are you interested in working with a group of peers to write and prepare your Lesson manuscript for submission to the journal *CourseSource*? *CourseSource* is partnering with BioQUEST and QUBES to offer semester-long Faculty Mentoring Networks (FMN)!

[Learn more and apply now to join us for the Fall 2022 CourseSource Writing FMN. Applications are due August 31, 2022.](#)

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***Incubators:***

**QB@CC Incubator: Developing Interdisciplinary Resources for Math and Biology**

Are you interested in developing open education resources to introduce quantitative skills in a life sciences classroom AND provide life science context and data in a mathematics classroom? Apply now to join a 2022 Fall QB@CC Incubator!

Participants in incubators will focus on developing modules with a strong focus on quantitative skills that can be used in both undergraduate life science and mathematics courses. Accepted applicants will work in groups that include math and biology faculty, select a mutually interesting quantitative biology topic, and collaborate to develop educational modules appropriate for use in their own classrooms.

Teams of math and biology faculty are encouraged to apply. Team applicants may stay together or join different groups to work on their module for the semester. Participants will have weekly virtual sessions to collaborate with and support others in the incubator group.

**Applications are now due August 31, 2022. Please see the website for instructions on how to apply.**

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**Save the date for the BioQUEST Partner Summit!**



October 7, 3:00 - 5:00 PM (EST)

We are excited to celebrate our partners' accomplishments, to make their work with BioQUEST and the QUBES Platform's roles more visible, and to strengthen and connect our communities.

Partner leaders and community managers are invited to the BioQUEST Partner Summit 2022. This online event will feature lightning talks from partner leaders to showcase the excellent work we've done together and opportunities for networking and discussion with leaders in the

BioQUEST/QUBES community. Learn how other groups are using the QUBES platform, find new collaborators and resources, and brainstorm ways to overcome project challenges.

Are you the leader of a project that is not yet a BioQUEST partner? Join us to learn about the benefits of partnering with BioQUEST and meet fellow project leaders.

[Learn more and register for the summit here!](#)

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## Featured Publications

We are so proud of the amazing scholarly work that is coming out of our community. Congratulations to the authors and thank you for your work.

*CourseSource*, July 2022

"[Workshop Report: Virtual CRISPR in the Classroom](#)"

Cathryn Kubera, Nicole M.I. Nivillac, Scott Tanner, Paul Le, Deovrat Begde, Michael J. Wolyniak, Anil K. Challa

*The pandemic forced many of us to seek out online professional development and other opportunities to bring new ideas into our classrooms. This review article shares the story of a CRISPR CURE and how they used an online workshop and the QUBES platform to keep their community growing.*

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If you have published a paper related to your work with BioQUEST and/or the QUBES platform, please let us know ([send the link to Molly](#))!

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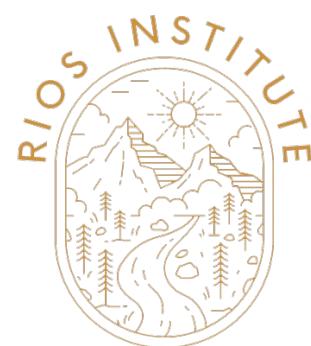
## Partner News and Opportunities

### RIOS seeks new working groups to fund!

The [RIOS Institute](#) invites proposals for Working Groups that will function as innovation sandboxes or think tank incubators.

Accepted proposals will receive a \$2000 budget. Participants will bring new ideas and address challenges as they develop a tangible product aligned with the [RIOS mission](#). Proposals are due

by October 17th 2022. [Go here to submit your Working Group proposal.](#)



FOR A RACIALLY JUST,  
INCLUSIVE, AND OPEN  
STEM EDUCATION

## Join the Community College Biology INSITES

Do you want to investigate teaching and learning in your classroom, and/or gain the resources you need to conduct and publish biology education research? Join the Community College Biology Instructor Network to Support Inquiry Into Teaching and Education Scholarship (INSITES)



**COMMUNITY COLLEGE BIO INSITES**

*What is the network?*

CC Bio INSITES is an NSF-funded network that aims to increase and support community college instructors' investigations into teaching and learning biology. The network consists of Biology Education Researchers at two and four-year institutions who come together to discuss and improve community college scholarship and teaching in biology. This network grew out of the recognized need for more research on how students learn biology at community colleges, which serve over half of the nation's biology majors and the majority of underrepresented students in biology, and recognition of the need for increased social, intellectual, and resource support for these efforts. [Learn more about the network here.](#)

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## Announcing CyVerse Fall Events

Foundational Open Science Skills (FOSS)



This 10 week-long camp-style workshop is designed to kickstart your Open Science career by combining lectures, presentations, and short breakouts for group work, with hands-on tutorials to reinforce essential skills for reproducible, collaborative science, capped by a group or individual project of your choice to put it all together. [For more information and to register visit the FOSS program page.](#)

## CyVerse Webinars

Join our free, half-hour long webinars on science and technology topics that support your research and teaching, with time for live Q & A with our expert presenters. [Find more information including the webinar agendas and registration information here.](#)

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## Education Conference

The Life Discovery - Doing Science Biology Education Conference will take place March 23-25, in Tallahassee, Florida. The theme for the conference is "Variants in Biology Education: What can we learn from pandemics?"



**Short presentation and hands-on workshop proposals open now through September 9, 2022!** [Learn more about LDC and apply here.](#)

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## ASCN seeks postdoctoral research associate

The Center for Research on Instructional Change in Postsecondary Education (CRICPE) at Western



Michigan University (WMU) is seeking a post-doctoral Project Manager to support the continued work of the Accelerating Systemic Change Network (ASCN). This project is funded by the National Science Foundation. The senior research associate will be in a visible leadership role in the operational and intellectual work of ASCN.

They are seeking applicants who have experience and interest in applying interdisciplinary research methods to solve important problems in higher education and who have a strong interest in policy and systemic change in higher education. Applicants must have a PhD in a relevant field. [Learn more about the position with ASCN and apply here.](#)

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## Registration and upcoming deadlines for NABT

### Registration for NABT is now open!

Join NABT in Indianapolis from November 10-13 for a great program of educational sessions, engaging speakers, an interactive exhibit hall, special events, and more! [Look for program updates at NABTConference.com](#)



It's easy to [register online](#) or by downloading the [2022 Registration Form](#). Fellowships for first-time attendees are still available.

NABT is offering discounts for groups of three or more attendees who make a single payment transaction using a credit card, check, or PO. The group can be teachers in a single school or district, or it can be you and your biology buddies. [Contact NABT](#) for details.



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