

# NEXT-GEN

## Bio Learning Network

### Program Description

The Next-Gen Bio Learning Network is recruiting a new cohort of community college faculty and next-gen biologists with a goal to support innovation in biology education and data science skills at Washington State Community and Technical Colleges. As part of the program participants will:

- Be immersed in cutting-edge next-gen biology presented by the biologists doing the work;
- Explore diversity, equity, and inclusion issues related to next-gen biology;
- Collaborate on a vision to use real-world biological data to enhance their current curriculum and enrich student outcomes across a breadth of biology major courses;
- Develop curriculum adaptations to engage and inspire students in remote/hybrid/in-person settings; and
- Create relationships with research and education colleagues across the region.

### Participants Will Receive:

- A \$1500 stipend, plus travel expenses to ISB for two separate days (further stipend available for second year of participation)
- Support to develop curriculum enhancements for remote/hybrid/in-person classroom next year
- A collaborative network of colleagues who support each other's professional growth

Opportunities for STEM careers abound in the Pacific Northwest, but too few of our students are finding their way to these career pathways. The Network for Biological Data Literacy program provides faculty and scientists with the support and resources to engage a diverse range of students with contemporary data literacy practices.

### 2023 Timeline

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**November 28, 2022** - Applications due

**December 9, 2022** - Applicants notified of their status

**January - June** - Monthly workshops (specific dates TBD):

- **January** - One day launch in person
- **Feb - May** - Two hour monthly Zoom workshops
  - Compatible with teaching schedules
- **June** - One day of in-person planning
- **Summer** - Curriculum resources development (varied schedules)

**Year Two** - Dates TBD

# The Benefits in the Classroom

## Students will:

- Engage with real-world scenarios and examples;
- Grow their ability to use contemporary strategies to work with authentic data sets;
- Gain experience with a dataset representing a diverse population – or – discuss how research could be improved to meet diverse and equitable needs.

## Who should apply:

### Community college faculty

- Actively teach biology courses for majors (future years will include a broader range of faculty participants)
- Commit to the attendance and time requirements; and
- Commit to develop and implement curriculum enhancements that they will share broadly with other faculty.
- There is no pre-requisite knowledge or experience.
- Priority will be given to teams of two or more from a single campus

### Next-gen biologists

- Next-gen biologists refer to a broad range of biologists who have expertise in accessing, manipulating, analyzing, interpreting, and visualizing large biological data sets.
- Priority will be given to early-career scientists (graduate students past year three, post-docs, research scientists, and new faculty members) with a demonstrated interest in undergraduate education.

**To apply, please email Jen Eklund, [jen.eklund@isbscience.org](mailto:jen.eklund@isbscience.org) your CV and a brief cover letter explaining why you would like to be part of this project and your experience working with diverse teams. Community college faculty, please include which courses you teach.**

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