ZOOM IN! *Learning Science With Data*

WANTED!
High school biology teachers for a study about teaching high school science using "big data."

What is the *Zoom In! Learning Science with Data* study? This study will provide teachers with an opportunity to use *Zoom In*, an online curriculum platform designed to develop students' evidence-based thinking and writing skills as called for in the NGSS. The tool supports students in analyzing and interpreting data as they build their understanding of key biology concepts.

During each drop-in *Zoom In* curriculum module, students work dynamically with authentic data sets and learn to use the data as evidence to answer questions about topics including polymorphism, trophic cascades, and population divergence. The tool provides scaffolding for students as they read, interpret, and actively manipulate data sets, and also as they use their data analysis as a foundation for building evidence-supported arguments. The blended modules also aim to support teachers in launching, guiding, assessing, and responding to student work.

What does participation in the study involve?
The study will occur from **November 2019 through February 2020**. Teachers will pilot one or more curriculum modules (approximately three to five class periods each) with one class of students, and assess students' knowledge and skills before and after the modules using a researcher assessment. Teachers will provide feedback to researchers through interviews about their perceptions of the module and digital tools and their suggestions for improvement. Researchers also will observe three to four classes when students are using the tools.

Who is conducting the study? The project is funded by the National Science Foundation and is conducted by researchers from EDC's Center for Children and Technology (EDC|CCT), a nonprofit research and development company.

What are the goals and purposes of this research?
This study will help us to refine the *Zoom In* platform and curriculum module design so that they can effectively support the needs of high school science teachers and students in employing data skills as a tool for gaining deeper insight into biology concepts.

What are the benefits of this study for participants?
Participating teachers will receive training on how to use the digital tools and their content, as well as access to the tools and curriculum module. ***Teachers and/or schools will be compensated for their time and effort in a manner that is in accordance with their school district's policies. We will offer $200 for each completed lesson module.***

Who is eligible to participate in the study? High school science teachers, ideally in the New York metro area, with at least three years of experience, who teach about polymorphism, trophic cascades, and/or population divergence during the course of their regular curriculum, are eligible to participate. Internet and computer access for a three-day period for each of the modules also is required.

How can I sign up, or find out more about the study?
To learn more about the study (and to sign up to participate!), please email Megan Silander at zisci@edc.org or call 212-807-4219.

EDC Education Development Center