

By participating in the NURTURES program you will:



Are you interested?

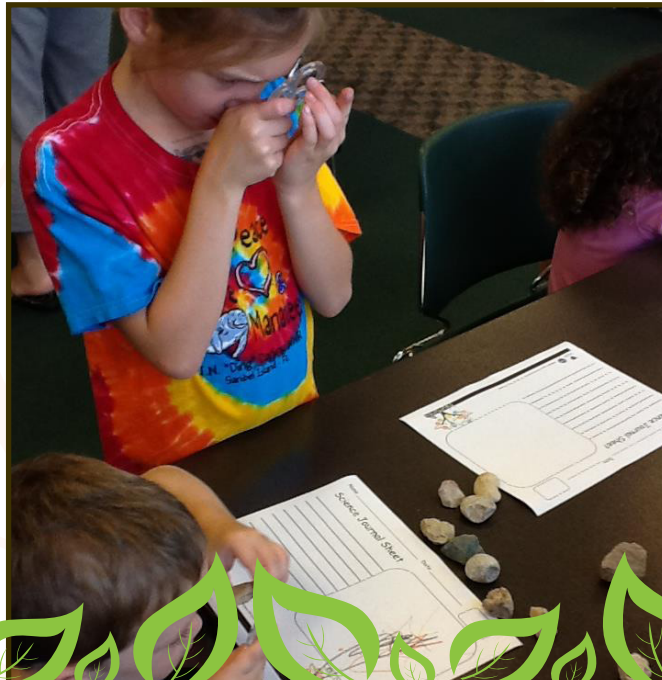
- Receive \$1,500 + iPad for attending and completing program requirements
- Earn 2 graduate credit hours from The University of Toledo.
- Participate in additional professional development hours during the academic year
- Receive classroom science instruction support throughout the academic year through coaching and Professional Learning Communities
- Have a \$200 budget allocation for purchasing science classroom supplies
- Gain access to and contribute to a library of quality science lessons
- Acquire classroom extension activities and supplies for family engagement

For more information contact:

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**Ready to apply??
Visit www.nurtures.utoledo.edu
for application information.**

NURTURES was formed as a partnership under the National Science Foundation Math and Science Partnership program, grant #1102808. Current programming is supported by the National Science Foundation Discovery Research PK-12 program, grant #1721059.



***NURTURE** your students' curiosity!*

***NURTURE** your students' thinking skills!*

***NURTURE** your enthusiasm and skills for science teaching!*

**We are searching for
PreK- 3rd grade
teachers!**

NURTURES strives to create a complementary, integrated system of early childhood science education for schools, families and community.










TEACHER PROFESSIONAL DEVELOPMENT

Participants will network with University of Toledo faculty and staff in the departments of Science Education, Early Childhood Education, Literacy, Natural Sciences and Engineering and lead PreK-3 educators to experience core science and engineering content, discuss strategies and skills for best teaching scientific ideas and concepts, and integrate those in the design of lessons for their own classroom.

Sessions focus on:

-  Inquiry-based Early Childhood Science Instruction
-  Earth/Space, Physical and Biological Science Content aligned with the Framework for K-12 Science Education and the Next Generation Science Standards
-  Pedagogical Practices to Support Science Academic Achievement
-  Discourse and Literacy Skills within Early Childhood Science Classrooms
-  Technology and Mathematics Integration in Inquiry Lessons

By the end of the two week institute, participants will have gained content knowledge and skills to design and implement their own science and engineering inquiry lessons with confidence, while employing scientific and engineering practices, discourse strategies, and literacy competencies best suited to the teaching of core science and engineering ideas and concepts specifically for grades PreK-3.

The program is designed for PK-3 classroom teachers and is open for 60 participants in 2018 and 60 participants in 2019. Participants are placed into one of the two scheduled Summer Institutes (July 9-20, 2018 or July 8-19, 2019). Two hours of graduate credit from The University of Toledo are offered for successful completion of program requirements.

Disciplinary content will be focused in grade bands:

Grade level	2018	2019
PreK	Physical Science	Physical Science
K-1	Earth/Space Science	Earth/Space Science
2-3	Biological Science	Biological Science

In addition to a generous stipend, each participant receives an iPad and instruction on relevant ways to integrate it in science inquiry lessons. To reinforce concepts learned during the two-week institute, additional professional development occurs through Professional Learning Communities and personalized coaching during the academic year, and these components focus on applications of NURTURES in the classroom.


Research on past NURTURES participants has shown a gain in teacher knowledge and a significant increase in the scores on early literacy, reading and mathematics standardized assessments for students whose teachers have experienced NURTURES over those students whose teachers have not participated in NURTURES.

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FAMILY ENGAGEMENT

TO COMPLEMENT TEACHER PROFESSIONAL DEVELOPMENT,

NURTURES provides additional programming that brings teachers, parents and the community together to provide young children with multiple exposures to quality science inquiry.*

-  Family Activity Packs serve as extensions of the classroom curriculum and are provided to participating teachers to use in their classrooms. These packs contain instructions, materials and other supplies that families will need to complete engaging, quality activities together.



-  Community events (called Sci-FUN events) are connected to the classroom curriculum. Materials and instructions are provided to teacher participants to hold these events in their own schools or communities to enhance family engagement.

*A random selection of teacher participants will receive family engagement materials during the course of program enrollment.