Deepen your understanding of Disciplinary Core Ideas, Practices & Crosscutting Concepts

**QUEST**
July 11- July 15, 2016 from 8:30am-3:30pm

**Weather and Climate - teachers in grades K-8**
Experiment with air pressure, temperature, the seasons, the greenhouse effect, humidity, clouds, wind, the Coriolis effect, hurricanes and storms.
Teachers will plan NGSS aligned lessons and engage in these NGSS Science and Engineering Practices:
- Develop and Use Models
- Analyzing and interpreting data
- Asking questions and defining problems

With Steve Carson, Ph.D. & Martha Friend both in Princeton Twp. Public Schools, and Donna Stumm, Flemington Raritan School District.

**Life in Extreme Environments - teachers of environmental science, biology, chemistry and earth sciences in grades 6-12**
What is life and where do we find it? What does the evolution of life tell us about the origins of life? How do organisms survive in extreme environments such as thermal vents on the ocean floor, acid hot springs in Yellowstone Park, ice covered lakes in Antarctica, miles beneath the Earth’s surface, and on the ISS orbiting our planet? We will explore what scientists have learned about the Tree of Life by examining what bacteria, viruses and other organisms have done to adapt and survive.
Teachers will plan NGSS aligned lessons and engage in these NGSS Science & Engineering Practices:
- Analyzing and interpreting data
- Constructing explanations
- Engaging in argument from evidence

With T.J. Onstott, Ph.D. & Danielle Schmitt, Dept. of Geosciences, Princeton Univ. and Teresa Maone & Kate Heavers, West Windsor-Plainsboro.

The fee is $250 for registrations received by 3/31/16 and $300 after 3/31. Lunch will be served.

For information and application see teacherprep.princeton.edu/professional-learning/quest or contact Anne Catena at acatena@princeton.edu or 609-258-3337

QUEST takes place at Princeton University and is led by content experts and co-facilitated by K-12 educators within the Teacher Leader Program, a collaboration of Princeton Univ., Rider Univ. and Raritan Valley CC.