is designed to enhance teachers’ knowledge of Science and Engineering Practices, Cross-Cutting Concepts, and Disciplinary Core Ideas as identified in the Next Generation Science Standards (NGSS) and the Common Core Standards.

Participants experiment while discussing pedagogy and the underlying content at an adult level with colleagues and the faculty.

“This renewed a passion in me for science and helped me pass that excitement on to my students because now I felt science was accessible to the everyday person.”

**QUEST** is a collaboration with the Program in Teacher Preparation, the Department of Geosciences at Princeton University, and the National Science Foundation.

The summer institute meets from 8:30 am to 3:30 pm, Monday through Friday. Participants receive teaching materials and earn 30 professional development credit hours.

**Registration fee:**
- $500 per week
- ($250 teacher stipend
- $250 program expense)

**Application Deadline:**
April 3, 2015

To apply fill out the online application at:
https://teacherprep.princeton.edu/professional-learning-programs-quest/application

Please complete your online application as soon as possible.

Due to limited space, we may not be able to accept all applicants.

**Questions? Contact:**
Dr. Anne Catena, QUEST Director
Program in Teacher Preparation
41 William Street,
Princeton University
Princeton, NJ 08540
acatena@princeton.edu
609-258-3336
CHOOSE ONE SESSION BELOW FOR THE WEEK OF
July 6-10, 2015:

Session for grades 3-8 teachers

How Do Humans Impact Local Climate?
Types of vegetation affect local and regional climates. Humans can affect both the types and amounts of vegetation in many regions. Data collected by satellites and by ground-based methods will be analyzed by participants to explore interactions between plants and the atmosphere in regions of different levels of human impact. Emphases will be placed on the roles of water and energy systems in New Jersey and the Amazon. Atmospheric and ecological observations from these systems will be incorporated into simple computer models.

At Princeton University with Dr. David Medvigy and Danielle Schmitt, Geosciences with Dr. Steve Carson, J.M. Witherspoon MS and formerly with the Geophysical Fluid Dynamics Laboratory.

Session for grades 3-12 teachers

Sustainability - Living on the Edge
Engineering in the Next Generation Science Standards focuses on designing solutions to humans’ wants and needs. To develop successful strategies for mitigating risks of earthquakes and volcanoes it is critical to understand how humans interact with their environment. Teachers will deepen and enrich their understandings of geologic processes by exploring activities at tectonic plate boundaries, analyzing risks to human populations, and evaluating strategies to mitigate those risks. Using Google Earth, we will analyze geological process data to identify patterns and develop models. We will design solutions to keep a disaster from becoming a catastrophe.

At Princeton University with Laurel Goodell, Geosciences.