

# 2016 Sacramento Area Science Project NGSS Science Leader Pathway Overview and Application

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The Sacramento Area Science Project seeks to build partnerships with school districts and county offices across California to increase district capacity to provide Next Generation Science Standards (NGSS)-aligned instruction that uses high-leverage science and engineering practices to help students grow in their understanding of core ideas of science.

## What will a Leader Pathway Participant receive?

- A comprehensive, research-based professional development (PD) platform, materials, and support to help teachers back at the home site experience and understand NGSS aligned instruction and assessment.
- Leadership Participant Training for a teacher leader (7 days in the summer: June 27-30 and July 19-21 and 3 follow-up days, TBD held at UC Davis).
- Access to the NGSX web-site platform.
- Access to an NGSX materials kit to use during the on-site group training.
- Phone consultations with SASP leadership to assist in setting up study group at home site.
- Networking with other CA educators participating in the SASP-NGSX program.
- Support from SASP personnel in planning for science professional learning in year two and beyond. This planning might include next steps for the year 1 study group as well as planning for additional NGSX study groups.

## Requirements:

- **School- or district-based participant:** teachers, science teacher leaders, and science coordinators to become a facilitator of high quality NGSS professional development within the home district.
- **Participation in all days of the summer:**
  - Part 1: Leadership Training:** Each participant will complete Leadership Training by engaging in all 7 NGSX unit modules plus targeted facilitator training.
  - Part 2: Plan for Study Group Implementation back at the home site:** Equipped with the training and access to the NGSX program, the leaders will develop a plan to facilitate an NGSX study group of 12-20 teachers back in their home school or district. This on-site study group will engage in 7 NGSX units (approx. 45 hours). Cost for access to NGSX for the study group is separate and will be charged as a per participant rate at the beginning of the study group.
- Plan to take the lead, with SASP consultation and support, in recruitment of participants, logistical support, and budgeting for a study group at home site during 2016-17 year.
- Participate in evaluation of the NGSX experience including pre and post surveys, self reports, and other means of feedback.

For more information about the SASP NGSS Leader Pathway please go to  
<http://education.ucdavis.edu/sacramento-area-science-project>

**Participant Fee:** \$1900 (Covers Leadership Training for 1 teacher and consultation on setting up study group at your home site).

Preference will be given to:

- Teachers of science, science teacher leaders, and teacher educators with the capacity and administrative support to bring NGSS-aligned training to additional teachers.
- Participants with experience facilitating groups of adult learners.
- We seek regional distribution of participants.

### **What is the NGSX Professional Development System (NGSX)?**

The NGSX is a new kind of learning environment. It is a web-based system designed to help teams of K-12 science educators apply the pedagogical shifts (moving from “learning about” to “figuring out”) described in the Framework for K-12 Science Education and the Next Generation Science Standards to their own teaching. NGSX brings the expertise of NRC Framework developers, experts in teacher learning, and professional development facilitators to science educators.

NGSX is organized into learning pathways structured to immerse participants – as learners and as teachers -- in the 3 dimensions of learning; core ideas of science, scientific and engineering practices and crosscutting concepts called for in the framework. Using a web-based system of tasks, tools and resources in a study group format, the NGSX experience combines first-hand science investigations, videotaped expert commentary and classroom case studies along with facilitated individual, small group and whole group discussions. Because these tools, tasks, and resources are located on a web-platform they are available to participants at any time outside of scheduled study group meetings.

In a collegial, seminar-like environment, NGSX participants will engage in modeling and constructing explanations of complex phenomena, hallmarks of Next Generation Science. They will also learn to use questioning strategies, or “talk moves”, to create a classroom culture in which students explain their thinking, listen to and build on the ideas of others and function as a community of critical thinkers. For more information and to watch a short video please go to [NGSX.org](http://NGSX.org)

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2016-17 Sacramento Area Science Project  
NGSS Science Leader Pathway  
Application  
**DEADLINE: 5 PM, JUNE 3, 2016**

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**Application Requirements:**

**Please include the following:**

**Teacher Data Form and Personal Statement.** Each teacher will complete the data form and address the application guidelines in a brief (limit: two paragraphs) statement explaining your current science practices and why you wish to participate in the program.

**A Purchase Order** for the participant fee, or a statement of the plan for funding the fee.

**Save and Email Completed Application (Teacher Data Form and Personal Statement) and Purchase Order information as an attachment to Cynthia Passmore: [cpassmore@ucdavis.edu](mailto:cpassmore@ucdavis.edu)**

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**Participant Data Form & Personal Statement**

Name: \_\_\_\_\_

Position \_\_\_\_\_

Grade Level(s) \_\_\_\_\_

Home email address: \_\_\_\_\_

School email address: \_\_\_\_\_

School telephone: \_\_\_\_\_

Home Telephone: \_\_\_\_\_

Cell phone: \_\_\_\_\_

School Address: School: \_\_\_\_\_

Street: \_\_\_\_\_

City/State/Zip \_\_\_\_\_

Home Address: Street: \_\_\_\_\_

City/State/Zip \_\_\_\_\_

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**Personal Statement:** Please attach or paste a **brief** statement (2 paragraphs) explaining your current work as a science leader/educator, why you wish to participate in this project, any experience with facilitating groups of adult learners, and your thoughts on how/where you will lead a NGSX Study Group in 2016-17. I am aware of the responsibilities of the NGSX Science Leader Pathway and am committed to completing the program, participating in each face-to-face session, doing the 'homework' between sessions, completing all pre- and post-surveys and other feedback measures, and recognizing that sessions will be videotaped for use with broader audiences (you will be provided an opportunity to consent to being part of videotaping and NGSX site evaluation), and conducting a NGSX pilot study group during 2016-17.

Signature of Applicant: \_\_\_\_\_ Date: \_\_\_\_\_

**Save and email completed Application (Teacher Data Form and Personal Statement) and Purchase Order information as an attachment to Cynthia Passmore: [cpassmore@ucdavis.edu](mailto:cpassmore@ucdavis.edu)**

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