

Join us at our NGSS Summer Institute for Grades K-12 Monday July 18 – Friday July 22, 2022

We are excited to offer our NGSS Summer Institute in-person again starting Monday July 18. The week-long Summer Institute provides K-12 teachers and administrators with practical ideas and tools to implement the NGSS. Every year we update our Summer Institute to incorporate what we are learning about classroom implementation through our work with thousands of teachers in New Jersey and across the nation. Past participants have found that attending the Institute was one of their **most valuable and practical professional development experiences** (*see participants quotes on other side*).

During the Institute participants will learn how to:

- Identify, select, and fine-tune phenomena and connect them to NGSS core ideas,
- Turn NGSS practices into 3D performance tasks to guide student learning,
- Make NGSS crosscutting concepts explicit in questions and performance tasks,
- Use explanation and argument to assess student learning,
- Support students in defining engineering problems and designing solutions for them,
- Support students as they investigate physical, life and earth science phenomena,
- Plan their own NGSS-aligned investigations,
- Access and use a database of over 600 NGSS-aligned investigations as described in our book: [*“Engaging Students in Science Investigation using GRC: Science Instruction Consistent with the NRC Framework and NGSS” \(Moulding, Huff, and van der Veen, 2020\)*](#).

The Institute will be led by **Dr. Wil van der Veen**, [author](#) and a nationally recognized expert on the NGSS and science education. Participants will work in small groups that are facilitated by **experienced classroom teachers from our NGSS Teacher Leader Program**.

The week-long Institute will be held on **Monday – Friday, July 18-22, 2022 at Raritan Valley Community College** in Branchburg, NJ. Each day **begins at 9 AM and ends at 3 PM**. Light breakfast and lunch will be provided.

**The fee is \$350 for the week-long Summer Institute.
Register early as our Summer Institute tends to fill up quickly!**

To register online go to www.tinyurl.com/RVCC-REGSI22. For more information contact Tina Gandarillas at tina.gandarillas@raritanval.edu or 908-526-1200 Ext 8942.

This Summer Institute is supported by a grant from the New Jersey Space Grant Consortium.



This is what teachers have said about our NGSS Summer Institute in the past:

"This was definitely an invaluable experience for me. The tools I received in this workshop has given me a clearer path of where I need to focus my energies where my curriculum is concerned. I have a clearer path of how to get my students engaged in content moving forward."

"I really appreciated the small group discussions. It was awesome getting to ask questions, share ideas, apply what we were learning, and get immediate feedback. I love how we had whole group sessions where we reviewed not only HOW to use the NGSS Planning Guide but also WHY we should be explicit about integrating CCCs and SEPs into each step of the learning investigation as well as using phenomena throughout."

"I learned to incorporate ALL 3 dimensions in my science instruction. I did not have a strong understanding of how to do this before. Using a phenomenon-based approach to teaching will be a new shift but worthwhile for student engagement and incorporation of all dimensions."

"I was familiar with some of the concepts of NGSS but this workshop really showed me how they work together. It makes a lot more sense now!"

"My experience was amazing! I learned so much and can't wait to apply everything in my classroom this year."

"The Institute was insightful and practical. I feel like there are some practices that I can apply immediately in my classroom, and others that I look forward to learning more about."

"I looked forward to attending each day and I feel like I learned so much through the discussions, given examples and the performance tasks I did myself!"

"I felt that this course was very professional, offered incredible value, and I could feel the passion of the main presenters."

"Every science teacher should be required to take this kind of workshop and be doing this in their classrooms. Now I feel like I can say that I "teach science".

Professional development provided by RVCC's Science Education Institute follows the recommendations from "Science and Engineering for Grades 6-12: Investigation and Design at the Center", National Academy Press, pages 275-278 (www.nap.edu/25216)

1. Science investigation and engineering design should be the central approach for teaching and learning science and engineering.
2. Instruction should provide multiple embedded opportunities for students to engage in three-dimensional science and engineering performances.
3. High-quality, sustained, professional learning opportunities are needed to engage teachers as professionals with effective evidence-based instructional practices and models for instruction in science and engineering. Administrators should identify and encourage participation in sustained and meaningful professional learning opportunities for teachers to learn and develop successful approaches to effective science and engineering teaching and learning.

