



GLOBE Atmosphere Investigations Programs (AIP)

Receive hands-on experience to incorporate real-world scientific investigations into the classroom

Are you looking for a hands-on science program to inspire the inner scientist in your teachers and students? Wish you could offer your teachers training in the practice of science, free of charge? Wish you could have their training continue throughout the year?

Now is your opportunity! NASA is looking for K-12 Divisions and/or Schools to submit applications for the GLOBE Atmosphere Investigations Program and nominate teacher teams for training. You choose the dates, the teachers, and the locations. We'll provide the trainers and the resources.

Program Summary

The [GLOBE](#) Atmosphere Investigations Programs (AIP) encourages students to engage in real science through investigations of our atmosphere. This year-long program supports both teachers and students through direct involvement with NASA research, activities, and programs. The program provides schools with:

- GLOBE Teacher Certifications
- Professional development during the summer
- Professional development during the school year
- Access to GLOBE instrumentation via NASA's Educator Resource Center equipment checkout
- Research opportunities for students

What Do You Need to Apply?

K-12 Organization Eligibility & Teacher Teams

Applications are open to Divisions and Schools in a 50 mile proximity to NASA Langley Research Center. These eligible organizations should select a team of teachers to participate. (Teams of 2-8 teachers.) Good teacher candidates would be those teachers interested in hands-on data collection and those who integrate atmosphere (weather or climate) into their curriculum. Teachers may be selected from grades 4-12, but please be strategic with your selections.

GLOBE Teacher Training Workshops

NASA Langley Research Center is a GLOBE Partner with three GLOBE Master Trainers in the area of Atmosphere. Based on your needs, select the training schedule that fits best. Overall we expect to work with your teachers over the summer, in the fall, and in the spring. Districts/schools may wish to have follow-up trainings on Teacher Professional Development Days. You should identify where each training can take place and preferred

times. If selected, you will be contacted to verify dates and locations of trainings. It's expected that all teachers from your Teacher Team would participate in all of the trainings. Teachers will be reimbursed for travel expenses if traveling to NASA Langley Research Center in Hampton, VA. Teachers should receive approximately 30 hours of professional development over the course of the year for their participation.

Summer Options, 3-Day GLOBE Workshop

- (a) July 30, July 31, Aug 1
- (b) Aug 2, 3, 4
- (c) Aug 5, 6, 7
- (d) Aug 12, 13, 14

Identify preferred dates and location*:

Fall GLOBE Workshop, October or November, ½ Day or Full day

Identify preferred date and location*:

Spring GLOBE Workshop, February or March, ½ Day or Full Day

Identify preferred date and location*:

Location* Applicants are encouraged to have teacher training at NASA Langley Research Center; however, this site is only available on weekdays. Training may be accommodated on weekends at your own site. If applications received from locations in close proximity, we may contact you to see if we can accommodate multiple Teacher Teams at one site.

Application Components

- (1) Organization contact information
- (2) Administrator or Supervisor overseeing Teacher Teams
- (3) Point of Contact for setting up on-site Training Workshops, if applicable
- (4) Short essay on why District/School wishes to participate in the GLOBE Atmosphere Investigations Program and how the program will be used in the classroom
- (5) Summary of Teacher Team (Individual profiles and how they will work together)
- (6) Proposed Training Schedule

Applications will be posted online beginning February 2013 at: <http://science-edu.larc.nasa.gov/GLOBE/training-1.php>. Applications will be due April 1, 2013.

Should you have any questions, please feel free to contact Jessica Taylor, GLOBE Trainer, at jessica.e.taylor@nasa.gov or at 757-864-6358.



SHARE WITH YOUR TEACHERS –



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- Teacher training during the school year (Fall and Spring)
- Access to GLOBE instrumentation via NASA's Educator Resource Center equipment checkout
- Research opportunities for students

What Can Teachers Expect?

Professional Development Workshops

Selected Teacher Teams will attend a summer Teacher Training Workshop at either the district/school location or at NASA's Langley Research Center in Hampton, VA. Teachers will then receive follow-up training over the course of the school year.

Teachers will work side-by-side with NASA scientists and educators to develop meaningful atmosphere investigations by using NASA's unique resources, including observations from advanced satellite systems and real-time measurements using GLOBE instrumentation and protocols. Teachers will be reimbursed for travel expenses if traveling to Hampton, VA. Teachers should receive approximately 30 hours of professional development over the course of the year.

GLOBE Certification & Instrumentation

Through participation in this program teachers will become part of [GLOBE](#) – an international community of teachers, students, and scientists studying environmental science in over 24,000 schools around the world. Teachers will also receive access to GLOBE instrumentation through a GLOBE Instrument checkout at the Educator Resource Center at the Virginia Air and Space Center.

Student Research Investigations - Spring

As an outcome of this training effort, teachers will be expected to incorporate atmospheric science learning activities into their educational setting and provide an opportunity for students to develop their own Earth-science research investigation. Teachers will be encouraged to send one or more of their students to present their research at a student research event, such as the Virginia Junior Academy of Science (VJAS), school and regional science fairs, GLOBE Virtual Student Conference, or the NASA Explorer Schools' Student Symposium.



GLOBE at NASA Langley, Attn: Jessica Taylor 21 Langley Blvd, Mail Stop 475
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