



Presidential Awards for Excellence
in Mathematics and Science Teaching

National Template

2010-2011

You Make A Difference!

“Every person in this room remembers a moment in which an educator showed them something about the world – or something about themselves – that changed their lives. It could be a word of encouragement, a helping hand, a lesson that sparked a question, that ignited a passion, and ultimately may have propelled a career. Scientists and engineers are made in those moments; doctors are made in those moments; teachers are made in those moments...”

President Obama



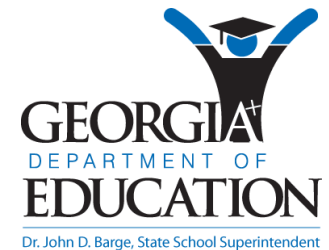
Remarks during
“Educate to Innovate”
Campaign and PAEMST
Teacher Recognition held
January 6, 2010





Presidential Awards for Excellence in Mathematics and Science Teaching

Georgia Department of Education



25th Class of Presidential Awardees



At The White House with President Obama



Presidential Awards for Excellence
in Mathematics and Science Teaching

Georgia's Most Recent Awardees

Rachael Parr

7th Grade Life Science Teacher
East Jackson Middle School
Jackson County



Pamela Krohne-Googe

2nd Grade Teacher
Roberts Elementary School
Paulding County



What is PAEMST?

The **Presidential Award for Excellence in Mathematics and Science Teaching**

is the

Highest Recognition

that a kindergarten through 12th grade mathematics or science teacher may receive for outstanding teaching in the United States.



Awardees represent:

- Teachers whose abilities and contributions to teaching and learning help students make progress in mathematics and science.
- Educators who exemplify the highest standards of mathematics and science teaching.
- Teachers who serve as models for their colleagues, inspiration to their communities, and leaders in the improvement of STEM education.



Who initiated the program?

Enacted by **Congress in 1983**,
the program authorizes the President to bestow
up to **108 awards per year***.

*Up to one science and one mathematics teacher can be recognized from each of the 50 states and 4 jurisdictions.

Jurisdictions include: Washington DC, Puerto Rico, Dept of Defense schools, and the US Territories as a group (US Virgin Islands, Guam, American Samoa, and Northern Mariana Islands).



Who oversees the program?

The National Science Foundation (NSF)

administers PAEMST on behalf of

The White House

**Office of Science and Technology Policy
(OSTP)**



Awardees receive:

- A citation signed by the President of the United States
- A \$10,000 award from NSF
- A trip for two to Washington DC for recognition events
 - These events include an award ceremony, celebratory receptions, professional development programs, and discussions with policy-makers on how to improve mathematics and science education.



PAEMST Recognition Events - January 2010



Teachers at the National Science Foundation enjoying professional development activities

Scientists from the *JOIDES Resolution* research ship connect via satellite



PAEMST Recognition Events - January 2010

Conferring of citations at
the Awards Ceremony



Reception at the National
Academy of Sciences



Nominations and Applications Now Open

ANYONE may nominate a teacher

Colleagues, Former Awardees, Principals, Students,
Superintendents, Family Members, Friends

OR teachers may apply directly at
www.paemst.org

7th-12th Grade Teachers: 2010-2011

K-6th Grade Teachers: 2011-2012



How do I nominate a teacher?

Go to the **PAEMST.org** and click on **Nominate a Teacher**



Presidential Awards for Excellence in Mathematics and Science Teaching

HOME ABOUT THE AWARDS THE AWARD PROCESS FIND AWARDEES FIND STATE COORDINATORS

PAEMST: Rewarding & Inspiring Great Teaching Since 1983

The Presidential Awards for Excellence in Mathematics and Science Teaching are the Nation's highest honors for teachers of mathematics and science. The Awards recognize outstanding K-12 teachers for their contributions in the classroom and to their profession.

Since 1983, more than 4,000 teachers have been recognized for their contributions to mathematics and science education. If you know great teachers, nominate them to join this prestigious network of professionals.

TEACHERS: APPLY ONLINE

Before logging in, please review the [2010-2011 Application Packet \(Adobe PDF\)](#). Applications must be completed by **May 2, 2011**.

2009 PAEMST AWARDEES ANNOUNCED

On June 7, 2010, President Obama named 103 mathematics and science teachers as recipients of the prestigious Presidential Award for Excellence in Mathematics and Science Teaching.

"Science and technology have long been at the core of America's strength and competitiveness, and the scientists and engineers who have led America on its remarkable path to success share something very precious: science and math teachers who brought these critical subjects to life," said President Obama. *"Today we honor some of the best of these teachers and thank them for their dedication. They are inspirations not just to their students, but to the Nation and the world."*

More details can be found in the [White House press release](#).

[Recognition Program Web Site](#)

REGISTERED USERS LOGIN

Username:

Password: [Login](#)

[Forgot your username or password?](#)

Click Here

[Nominate a Teacher](#)

[Begin or Resume an Application](#)

WHITE HOUSE WEBCAST

President Obama honored 2008 awardees at the "Educate to Innovate" campaign event in January, 2010. [View the webcast](#)



Nomination Page

On the Nomination Page, please provide:

- the Teacher's
 - email address
 - name
 - school name, address and telephone number
- your contact information
- how you know the teacher
- how you heard about PAEMST

Presidential Awards for Excellence
in Mathematics and Science Teaching

HOME ABOUT THE AWARDS THE AWARD PROCESS FIND AWARDEES FIND STATE COORDINATORS

Nomination

The deadline for nominations is April 1, 2011. The nomination form should be completed early enough to ensure that the nominated teacher is given enough time to thoroughly prepare an application that reflects exemplary teaching prior to the application deadline. Applications are due by May 2, 2011.

Nominate outstanding secondary, grades 7-12, mathematics and science teachers now for the 2011 awards. (Nominations for elementary school teachers, grades K-6, will be accepted next year.)

Who is Eligible for 2011?

The following are eligibility criteria for applicants. They must:

- Teach mathematics or science at the 7-12th grade level in a public or private school.
- Hold at least a Bachelor's degree from an accredited institution.
- Be a full-time employee of the school or school district as determined by state and district policies, and teach K-12 students at least 50% of the time.
- Have at least 5 years of full-time, K-12 mathematics or science teaching experience prior to the 2010-2011 academic school year.
- Teach in one of the 50 states or the four U.S. jurisdictions. The jurisdictions are Washington, DC; Puerto Rico; Department of Defense Schools; and the U.S. territories (American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands).
- Be a U.S. Citizen or Permanent Resident.
- Not have received the PAEMST award at the national level in any prior competition or category.

Fields marked with a * are required.

Nominate a Teacher

Enter teacher's e-mail here first

About this Teacher

Please enter the teacher's email address first so we can check if they have already been nominated.

Salutation: *

First Name: *

Middle Name:



Nominations and Applications Now Open

What follows the nomination?

The nominee:

- Will be contacted by the state coordinator after the nomination.
- Will complete the application form and video.
- Will submit online application to the state coordinator by May 1 of the application year.



Who can apply for 2010-2011?

An applicant must:

- Teach mathematics or science at the 7th-12th grade level in a public or private school.
- Hold at least a Bachelor's degree from an accredited institution.
- Be a full-time employee of the school or school district as determined by state and district policies, and teach K-12 students at least 50% of the time.
- Have at least 5 years of full-time, K-12 mathematics or science teaching experience prior to the 2010-2011 academic school year.



Who can apply? (Con't)

- Teach in one of the 50 states or the four U.S. jurisdictions.
 - The jurisdictions are Washington, DC; Puerto Rico; Department of Defense Schools; and the U.S. territories (American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands).
- Be a U.S. Citizen or Permanent Resident.
- Not have received the PAEMST award at the national level in any prior competition or category.



Username and Password



Presidential Awards for Excellence in Mathematics and Science Teaching

[HOME](#)

[ABOUT THE AWARDS](#)

[THE AWARD PROCESS](#)

[FIND AWARDEES](#)

[FIND STATE COORDINATORS](#)

Welcome, Teacher

» [Request Access to the Application System](#)

(For teachers who have NOT received a username and password)

» [Login to the Application System](#)

(For teachers who have received a username and password)

If you don't have a
username and password,
one will be sent to you.
Select the top option.

The National Science Foundation administers PAEMST on behalf of
the White House Office of Science and Technology Policy.

nsf.gov | estp.gov




Help:

info@paemst.org



Presidential Awards for Excellence
in Mathematics and Science Teaching

Login Page



Presidential Awards for Excellence
in Mathematics and Science Teaching

HOME ABOUT THE AWARDS THE AWARD PROCESS FIND AWARDEES FIND STATE COORDINATORS

Login

Fields marked with a * are required.


User Name: *

Password: *

[Forgot your username or password](#)

Enter the username and password you received in your email here.

The National Science Foundation administers PAEMST on behalf of the White House Office of Science and Technology Policy
nsf.gov | estp.gov



Help:
info@paemst.org



The Teacher Portal

Once the applicant has logged in, the Teacher Portal will open.

« [PAEMST.org](#)

2011 PAEMST APPLICATION

Teacher Portal

TEACHER PORTAL

- [Welcome](#)
- [My Application](#)
- [Instructions](#)
- [My State Coordinators](#)

Your Teacher ID is TID6841

Program Questions
e: info@paemst.org

Technical Assistance
e: application@paemst.org
t: 1-800-209-6327

Assistance is available between the hours of 9am - 5pm EST, Monday to Friday.

To have a paper document scanned and uploaded, please fax it to 1-800-427-0139.

Welcome t-2011-al-2 teacher

Congratulations on beginning the application process for the Presidential Award for Excellence in Mathematics and Science Teaching (PAEMST).

Please complete the [eligibility form](#).

After reviewing the [2010–2011 Application Packet \(Adobe PDF\)](#) and reading the [Instructions](#), visit [My Application](#) to complete your application.

Contact your [State Coordinators](#) if you have questions or need assistance.

[Change Password](#) | [Logout](#)

Deadline

Applications are due by Midnight Hawaii-Aleutian Standard Time (HST) on **May 2, 2011**. Applications are usually due May 1st but the deadline has been extended this year because May 1st falls on a weekend.

You have **178** days to complete your application.

If you decide not to apply, you can [withdraw your application](#) at any time.

Free Document Viewers

[Microsoft Word Viewer](#)

[Acrobat Reader](#) for PDF files

OMB No: 3145-0023
[Privacy & Public Burden Statements](#)



Within the Teacher Portal

- **Applicants will find:**
 - **2010-2011 Application Packet (PDF)**
 - **My Application**
 - Online Application/ Screens
 - Downloadable Forms and Templates
 - **Instructions** for Online Application
 - **My State Coordinators** Contact Info



Application Components

- Once the applicant enters **My Application** and completes the eligibility form,
- There are three components to the online PAEMST application:
 - **Administrative** Component
 - **Narrative** Component
 - **Video** Component



The Teacher Portal – My Application

In the Teacher Portal, the applicant can access all components of the application

Teacher Portal

[Welcome](#)
[My Application](#)
[Instructions](#)
[My State Coordinators](#)

Your Teacher ID is TID6841

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e: info@paemst.org

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To have a paper document scanned and uploaded, please fax it to 1-800-427-0139.

My Application

[Change Password](#) | [Logout](#)

Confirm Eligibility	Status
Eligibility Form <i>Access to the application components below will be granted upon completion of the eligibility form.</i>	in progress

Complete & Submit Application	Status
1. Administrative Component	
Teacher Information Form	not started
Employment Verification Form	not started
Letters of Recommendation	not started
Résumé	not started
Demographic Information Form	not started
2. Narrative Component	
Written Response	not started
Supplemental Materials	not started
3. Video Component	
Video Submission	not started

When all components of your application are complete, the button to "Submit Application" will become enabled.

Deadline

Applications are due by Midnight Hawaii-Aleutian Standard Time (HST) on **May 2, 2011**. Applications are usually due May 1st but the deadline has been extended this year because May 1st falls on a weekend.

You have **178** days to complete your application.

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Tools & Tips

[2010–2011 Application Packet \(Adobe PDF\)](#)
[Employment Verification Form \(Adobe PDF\)](#)
[Dimensions of Outstanding Teaching Template \(Microsoft Word\)](#)
[Dimensions of Outstanding Teaching Template \(Corel Word Perfect\)](#)

Free Document Viewers

[Microsoft Word Viewer](#)
[Acrobat Reader](#) for PDF files



The Teacher Portal – My Application

My Application

Your Teacher ID is 6739

Confirm Eligibility

Status

[Eligibility Form](#)

completed

Complete & Submit Application

Status

1. Administrative Component

[Teacher Information Form](#)

in progress

[Employment Verification Form](#)

not started

[Letters of Recommendation](#)

not started

[Résumé](#)

not started

[Demographic Information Form](#)

not started

2. Narrative Component

[Written Response](#)

not started

[Supplemental Materials](#)

not started

3. Video Component

[Video Submission](#)

not started

When all components of your application are complete, the button to "Submit Application" will become enabled.

Submit Application



Administrative Component

- The **Administrative Component** consists of:
 - Teacher Information Form
 - Employment Verification Form
 - Letters of Recommendation (three)
 - Résumé (two pages maximum)
 - Demographic Information Form (optional)



Narrative and Video Components

- The applicant will choose a topic or concept that is challenging for his or her students.
- This topic or concept will be used in the **Written Response** and when choosing a classroom lesson for **Video Submission**.
- Overall, the Written Response, Supplemental Materials, and Video must address the **Five Dimensions of Outstanding Teaching**.



Five Dimensions of Outstanding Teaching

1. Mastery of science or mathematics **content knowledge** appropriate to grade level
2. Use of appropriate **instructional methods** and strategies
3. Effective use of **assessments**
4. **Reflective practice** and **life-long learning**
5. **Leadership** in education



Dimension One

- Dimension One: **Mastery of mathematics or science content appropriate for the grade level taught. (4 pages max)**
 - Ia. Discuss the mathematical or scientific ideas that are fundamental to understanding the chosen topic or concept.
 - Ib. Explain why this topic or concept is important for students to learn and how it relates to more complex concepts that students will encounter in subsequent lessons, grades, or courses.
 - Ic. Discuss the misconceptions or misunderstandings that students typically have with regard to this topic or concept.



Dimension Two

- **Dimension Two: Use of instructional methods and strategies that are appropriate for the students in the class and that support student learning. (4 pages max)**
 - 2a. Describe the instructional approaches you used to help students understand the topic or concept chosen in Dimension One.
 - 2b. Explain how you identify and build on students' prior knowledge, and how this knowledge is addressed in your video and in your general teaching strategies.
 - 2c. Discuss the instructional strategies and techniques you use to meet the learning needs of all students, challenging those with stronger knowledge while ensuring learning for less accomplished students.



Dimension Three

- Dimension Three: **Effective use of student assessments to evaluate, monitor, and improve student learning.** (3 pages max)
 - 3a. Describe how you assessed student learning and achievement for the topic discussed in Dimension One and shown on the video, and how you used what you learned from the assessment to improve your teaching.
 - 3b. Discuss other specific ways that you routinely assess and guide student learning. You may include examples of formative or summative techniques, including student presentations, projects, quizzes, unit exams, or other methods.
 - 3c. Provide evidence of your teaching effectiveness as measured by student achievement on school, district or state assessments, or other external indicators of student learning or achievement.



Dimension Four

- Dimension Four: **Reflective practice and life-long learning to improve teaching and student learning.** (2 pages max)
 - 4a. Discuss the more successful and less successful aspects of the instructional activities shown in the video and discussed in the narrative, and describe what you might do differently to improve student learning.
 - 4b. Describe how reflection on your teaching practices helps you improve your classroom instruction. You may provide examples of lessons or activities you revised based on this reflection.
 - 4c. Using one or two of the professional development experiences cited in your résumé, describe how your participation in these activities has improved your teaching and enhanced student learning



Dimension Five

- Dimension Five: **Leadership in education outside the classroom.** (2 pages max)
 - 5a. Describe how you have supported other teachers, student teachers or interns through activities such as induction, mentoring, leading professional development activities, or co-teaching.
 - 5b. Describe how you contribute to educational excellence at the school, district, state or national level.



Insider Tips - Narrative

- The narrative must not exceed 15 pages.
 - Respond to the Dimensions in the order presented in the application.
 - Use the narrative template provided in the Teacher Portal.
- Applications may include up to 10 additional pages of Supplemental Materials, numbered sequentially (1-10).
 - Supplemental Materials should support the narrative response.
- Reference the video and/or the supplemental materials within the narrative, where and when appropriate
 - Use time markers for clarity.
- Have friends read over your narrative for grammar, clarity and completion.
- Avoid educational jargon (acronyms, district/state-specific terms).



Insider Tips - Video

- The video recording must be of a single class period, lesson, or experience during the 2010-2011 school year.
- The video should focus on the teacher as well as the students.
- The video must not exceed 45 minutes or one class period, which ever is shorter.
- Consider using microphones so both you and your students can be easily heard in the video.
- The video recording must be UNEDITED. Breaks in the video-taping will cause your application to be disqualified.
- Help students become accustomed to being video-taped by recording many lessons.



Video Upload for SELECTED STATES

- **Selected states** will be a part of a “video upload” pilot test this year.
- In those states, applicants will be able to upload their video recording in an electronic form to the portal.
- If upload capabilities do not exist, DVDs will be accepted, as in previous years and uploaded on behalf of the applicant.



Video Uploads for SELECTED STATES

2011 PAEMST APPLICATION

Teacher Portal

TEACHER PORTAL

[Welcome](#)

[My Application](#)

[Instructions](#)

[My State Coordinators](#)

Your Teacher ID is TID6840

Program Questions

e: info@paemst.org

Technical Assistance

e: application_dev@paemst.org

t: 1-800-209-6327

Assistance is available between the hours of 9am - 5pm EST, Monday to Friday.

To have a paper document scanned and uploaded, please fax it to 1-800-427-0139.

Video Submission

not started

In addition to the *Dimensions of Outstanding Teaching* written response, you must submit a video. The video must be of a single class, lesson, or experience (e.g. field trip) during the 2010 - 2011 school year. In order to provide in-depth evidence of the applicant's knowledge and abilities, the video must correspond to the important topic or concept chosen and discussed in Dimension One. Whenever the video is referenced in the narrative responses, a specific counter reference (minutes and seconds elapsed) should be provided. For more information regarding the video component of the application, please refer to the [2010-2011 Application Packet \(Adobe PDF\)](#).

The video must be continuous footage, unedited and devoid of any stopping and restarting of the camera. The video must not exceed 45 minutes or one class period, whichever is shorter. No other supplementary video materials can be submitted.

Upload Instructions

Our system requires that uploaded videos be encoded in the following format: H.264 Video and AAC Audio contained in an .mp4 container file. If you are unsure of how to produce the video file in the correct format or if you have any questions please have the person who is making your video call us at 1-800-209-6327. We will gladly discuss options for creating the video in the correct format.

Please note: Uploading your video can take a long time depending on your internet connection. Please be prepared for the wait.

If you are unable to upload your video we will accept it on DVD but we would like to encourage you to try uploading it first. We will work with you if you are experiencing problems. If we have been unable to upload your video then you can mail it to us by following the [DVD Instructions](#).

File

Upload Video...

[Change Password](#) | [Logout](#)

OMB No: 3145-0023
[Privacy & Public Burden Statements](#)



Presidential Awards for Excellence
in Mathematics and Science Teaching

Mailed Video Submission

[Change Password](#) | [Logout](#)

Video Submission

not started

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The video must be continuous footage, unedited and devoid of any stopping and restarting of the camera. The video must not exceed 45 minutes or one class period, whichever is shorter. No other supplementary video materials can be submitted.

DVD Instructions

The video must be submitted on a DVD, be in DVD-VIDEO format as a single title, and be playable in a standard DVD player. The applicant should keep the master video and submit two copies of the video.

Mailing Instructions

1. All video submissions (DVDs) must be labeled with "PAEMST 2011 - Grades 7-12". Please also include your name, Teacher ID, State, and subject area (Mathematics or Science).
2. Video materials must be postmarked no later than May 2, 2011.
3. Use the mailing label to mail your video submission.
4. You should keep the master video and submit **two copies** of the video.
5. Enter the date you mailed the video below and click **'Save'**

Date mailed (mm/dd/yyyy)

Save

Enter the date you mailed the video.



The Teacher Portal – Finish/Submit Application

When all **STATUS** boxes register as **completed** you are ready to submit your application

My Application

Your Teacher ID is 6739

Confirm Eligibility

Status

[Eligibility Form](#)

completed

Complete & Submit Application

Status

1. Administrative Component

[Teacher Information Form](#)

completed

[Employment Verification Form](#)

completed

[Letters of Recommendation](#)

completed

[Résumé](#)

completed

[Demographic Information Form](#)

completed

2. Narrative Component

[Written Response](#)

completed

[Supplemental Materials](#)

completed

3. Video Component

[Video Submission](#)

completed

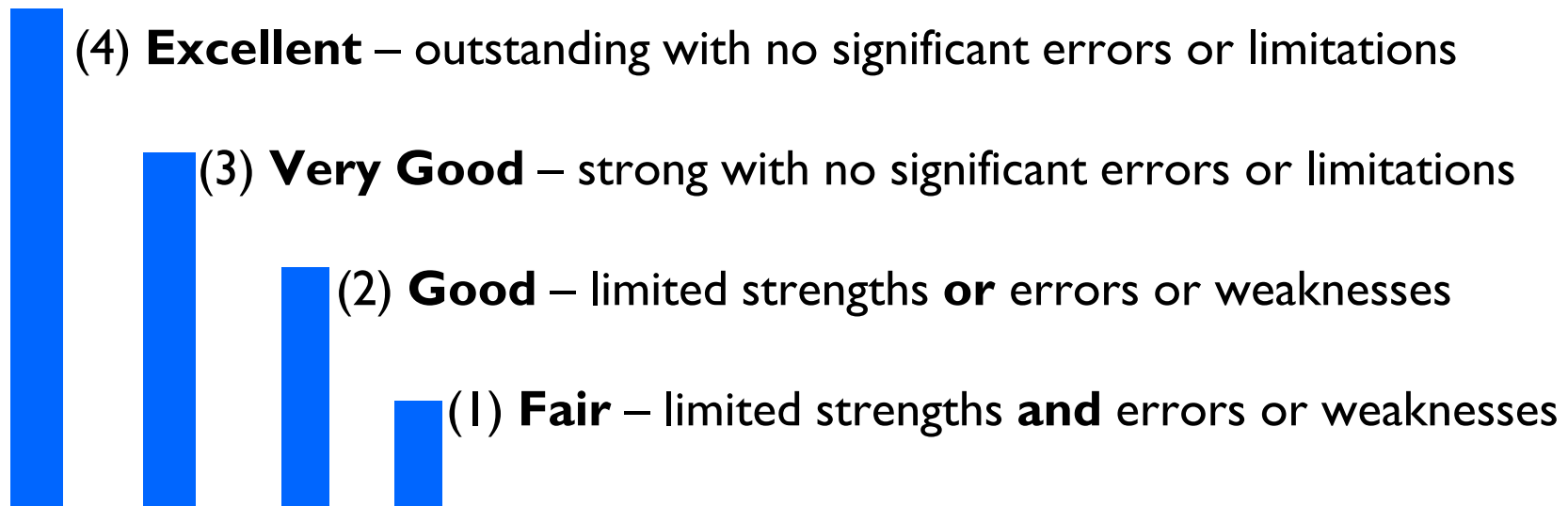
Submit Application

Click
here



How are applications scored at each level?

- Each **Dimension of Outstanding Teaching** is scored with respect to demonstrated **skills, knowledge, or performance** using a four point scale. Reviewers use evidence from the applicant's résumé, letters of recommendation, narrative, supplemental information, and the video to score each dimension.



What is the selection process?

State Review – Science

Up to 3

National Review – Science

Up to 1

State's Presidential Awardee

- State and jurisdiction selection committees choose up to three finalists from science nominations.
- A national selection committee composed of prominent scientists, mathematicians, educators, administrators, and past awardees makes recommendations to NSF.
- The national selection committee recommendations are forwarded to the White House.
- Potential awardees go through FBI clearance.
- National awards are made by the President of the United States.



Timeline

- **Nomination Deadline (7th – 12th Grade Teachers)**
 - **April 1, 2011**
- **Application Deadline**
 - **May 2, 2011**
- **State Selection Committees Meet**
 - May and June 2011
- **National Selection Committees Meet**
 - July and August 2011
- **Recognition Events in Washington DC**
 - Following Year (2012)



Remember!

Application Deadline:
May 2, 2011

For

Application

Assistance:

State Coordinator

www.paemst.org

For

Technical

Assistance:

application@paemst.org

For

General Program

Assistance:

info@paemst.org



State Help Available!

- Contact the State Coordinator

Juan-Carlos Aguilar
(404) 657-9072

jaguilar@doe.k12.ga.us

or

Amanda Buice
(404) 657-8319

abuice@doe.k12.ga.us

- Request a mentor to give personal guidance through the process



Nominate Outstanding Teachers Today!



Website: www.paemst.org

Email: info@paemst.org

