Student Welcome and Informational Webinar

April 21, 2020
CESSRST Lead Institution – Management Team

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Center Director

Dr. Shakila Merchant
Center Assistant Director

Laurie Cook
Education Expert

César Ortiz
Student Affairs Manager

Dr. Shakila Merchant
Center Assistant Director

Paul Alabi
Data and Satellite Station Manager

TBD
Communications Manager

Georgina Fekete
CESSRST Budget Manager

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Administrative Coordinator

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External Evaluator

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Social Science Lead

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Center Director
CREST Partner Institution PIs

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Dr. Pat McCormick

U. of MD Baltimore County
Dr. Ruben Delgado

U. of Texas at El Paso
Dr. Miguel Vélez-Reyes

U. of Puerto Rico at Mayagüez
Dr. Rafael Rodríguez Solis

San Diego State University
Dr. Walter Oechel

Hampton University
San Diego State University
UMBC
U. of Texas at El Paso
AGENDA

- About NOAA EPP MSI Cooperative Science Centers
- CREST Fellowship – understanding different elements
- CESSRST Journey
  - LoU – Letter of Understanding
  - ISDP - Individualized Student Development Plan
  - RCR – Responsible Conduct of Research
  - CWCC – Center Wide Core Competency
  - NERTO – NOAA Experiential Research and Training Opportunity
  - Communication, Conferences Publications
  - Final Report/Project/Thesis
    - Recognizing your fellowship – Acknowledgement/affiliation
- Exit and beyond (Job, graduate school)
Centers through national competition and supported by NOAA’s Office of Education

Educate, train and graduate a diverse NOAA enterprise future workforce

Engage in inter-disciplinary STEM fields aligned with NOAA Mission Sciences

There are Four Centers with 31 University Members

- NOAA Center for Atmospheric Science and Meteorology (NCAS-M) – Howard University, DC
- NOAA Center for Coastal and Marine Ecosystems (CCME) – Florida A&M University, FL
- NOAA Living Marine Resources Cooperative Science Center – University of Maryland, Eastern Shore, MD
- NOAA Center for Earth System Sciences and Remote Sensing Technologies (CREST) – The City College of CUNY, NY

Source: NOAA CCME (Pitter, S., May, 2017)
NOAA Earth System Sciences and Remote Sensing Technologies Partners (2016-2021)

- **CUNY** – 10 colleges
- **Federal** – USEPA, USACE, USGS, NASA, DoEd
- **Industries** - IMSG, Northrop Grumman, ERT, Inc, SSAI, and several Federal Contractors
- **City** – NYC DEP/DEC; OEM; Mayors office
- **City-Private** – MTA, Con-Edison, Baker International/FEMA
- **Museums** – American Museum of Natural History and NY Hall of Science, NY
CESSRST Fellowship IS different

A Holistic Training
✓ RESEARCH
✓ ACADEMIC
✓ PROFESSIONAL

Prepares you for:
• Future workforce, or
• Further studies
NOAA CESSRST: Journey At a Glance

1. LoU  
2. ISDP  
3. RCR  
4. Core Competency

Research Training  
Internships  
Conference, Publications  
Assessment/Exit Surveys

1. Completed at the beginning of the program  
2. Represents the student’s map throughout the program. Must be updated every 30 days  
3. Must be completed within the first 30 days after signing the LoU  
4. Must be completed within the first 180 days after signing LoU
Understand YOUR Letter of Understanding (LoU)

**Major Elements**

- Academic Conduct, Integrity and Core Competency
- Follow academic requirements in your home institutions
- Reporting and communication
- Employment during NOAA-CESSRST fellowship
- Travel budget and procedure
- Participate in assessments, surveys & evaluations
- Waivers for social media and other media
- Fellowship award specifics
Steps to LoU

1. Review it with your Campus PI and/or Mentor

2. Mentor-Mentee agreement signature

3. Center Director Signs the document

4. Upload your LoU on the MIS-Sect. 5
Professional Advancement and Career Engagement
ISDP a living document

Mapping & tracking your career goals || Reporting, Assessment/Evaluation
Important sections of ISDP...

**Ethnicity**
- White
- Hispanic/Latino
- Asian
- Black/African American
- Native/American Indian/Alaska Native
- Pacific Islander
- Other

**Are you a US Citizen?**
- Yes
- No

**Citizenship Proof:**
- Valid USA Passport
- USA Birth Certificate
- Valid USA Naturalization Certificate of Citizenship
- Leveraged Student

**Submit Answers**
Good communication begins with a compelling Bio...

[Person was born in the Midwest of the U.S. As a child, [Person] was known for being determined and focused, and she was placed in the gifted program in grade school. She was also known for her dedication in basketball, where, as a 7th grade middle-schooler, she started on the high school basketball team and made All-Ohio by the 9th grade. In addition, she played on the USC women’s basketball team. Academically, her interests and pursuits have continuously been geared towards mathematics and science. She has a BS in Physical Science from St. John’s University, with a minor in Catholic Theology, and she has a MS in Industrial Engineering from NYU. With her degrees, [Person] has also been able to enjoy years of working in energy and civil engineering. Aside from academics, her time is spent with her son. Despite experiencing much adversity and family losses in her life, [Person] maintains a steadfast belief that hard work produces positive results.]
## Research Updates ...

<table>
<thead>
<tr>
<th><strong>What Theme is your research project?</strong></th>
<th>Water Prediction &amp; Ecosystem Services</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>What Is your research project title?</strong></td>
<td>New York City Flood Vulnerability Mapping using Merged Remote Sensing and In-Situ Data</td>
</tr>
<tr>
<td><strong>What is your research project synopsis?</strong></td>
<td>The main objective is to create a Flood Risk and Vulnerability Mapping (FRVM) tool for New York City. With the utilization of historical data, Geographic Information System (GIS), and, possibly, machine learning, the project aims to provide a user-friendly tool for flood risk assessment.</td>
</tr>
<tr>
<td><strong>Who Is your Faculty Advisor?</strong></td>
<td>Reza Khanbilvardi</td>
</tr>
<tr>
<td><strong>Who is your co-Faculty Advisor?</strong></td>
<td>Tarendra Lakhankar</td>
</tr>
<tr>
<td><strong>Who is your NOAA Mentor?</strong></td>
<td>Robert Rabin</td>
</tr>
<tr>
<td><strong>With which NOAA Line Office is your NOAA Mentor associated?</strong></td>
<td>OAR - Office of Oceanic and Atmospheric Research</td>
</tr>
</tbody>
</table>
Professional Development Updates..

Section 5 – Professional Advancement and Career Engagement (PACE)

When did you/do you plan to complete your Core Competency BASIC/LEVEL 1?
Note: Training offered during summer

<table>
<thead>
<tr>
<th>Semester</th>
<th>Degree</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Summer 2020</td>
<td></td>
<td></td>
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</tbody>
</table>

"IMPORTANT" You must complete this section of the ISDP every semester for continuous funding

a) Make sure you select a degree above (#1) e.g "Degree 1"
b) After selecting a degree, click on (#2) to add a new entry it will be added and appear in the box below
c) Complete section (#3) below by updating the new entry with your semester detail (using the "RED" link)

Semester Academic Progress

1. Select Degree here >>> Show Degree 1: PhD

Degree Selected: PhD

2. Add a new semester for ABOVE SELECTED Degree

3. Below, select "show semester detail" next to the appropriate semester and then answer all questions

<table>
<thead>
<tr>
<th>Semester</th>
<th>Degree</th>
<th>Link</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spring 2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fall 2019</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CLICK HERE - Show/Complete your semester detail (Mandatory)
There is more to ISDP..

Individualized Student Development Plan
NERTO Dashboard
6-month Progress Report
Center-Wide Core Competency

Research Journal Publications
Conference Participation
Seminar Attendance
Exit Form

Useful Resources
How to apply for NOAA Undergraduate Scholarship Program (video)
Welcome Webinar: Fall - 2018  Spring - 2019
CESSRST Undergraduate - LOU Template
CESSRST Graduate - LOU Template
### Seminar Dashboard....

**CREST Seminar Attendance**

Student’s Name: [Please Enter Seminar Attendance Information Below]

*Click button next to each seminar you attended. Once clicked, a green button indicates you attended.*

<table>
<thead>
<tr>
<th>Seminar Series: Carbon Dioxide Exchange of a Salt Marsh in Virginia</th>
<th>Tues., 10/22/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Jesus Ruiz-Plancarte</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminar Series: GOES-R Spacecraft Overview</th>
<th>Thurs., 10/17/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tim Gasparini</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminar Series: Caribbean Biogeochemistry, Global Change and Ocean Observing</th>
<th>Thurs., 10/10/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Jorge Corredor</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminar Series: Monitoring Global Land Surface Phenology and Biomass Burning</th>
<th>Mon., 10/7/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Xiaoyang Zhang</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Bob Rabin</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Overview of the ASDC and the Science Outreach Team at NASA LARC</th>
<th>Wed., 9/18/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Megan Buzanowicz</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminar Series: GLIMR Instrument Scientist, Raytheon Space and Airborne Systems by</th>
<th>Tues., 9/17/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Jeff Puschell</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaluation of HRRR Forecasts using New York City NY-uHMT in-situ data</th>
<th>Thu., 8/15/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Adrian Pena</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Evaluation of the National Water Model for Puerto Rico</th>
<th>Thu., 5/23/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Jean Pierre Valle</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Seminar Series: Issues and priorities for water research in Hudson basin</th>
<th>Tues., 5/7/2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dr. Simon Onishi</td>
<td><a href="#">Event info</a></td>
</tr>
</tbody>
</table>
Journal it....

Please enter your impressions of this seminar:
Did you attend any conferences...?

*Detail conferences attended, what you learned and/or what you presented...*

### Student Conference Participation and Proceedings

<table>
<thead>
<tr>
<th>Student’s Name</th>
<th>Please Add or Select Below</th>
</tr>
</thead>
</table>

**Add Conference/Proceeding Information**

<table>
<thead>
<tr>
<th>Proceeding Title</th>
<th>Conference Name / Year</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</table>

[Show Details]
Acknowledgement:
This study is supported and monitored by the National Oceanic and Atmospheric Administration – Cooperative Science Center for Earth System Sciences and Remote Sensing Technologies under the Cooperative Agreement Grant #: NA16SEC4810008. The authors would like to thank The City College of New York, NOAA Center for Earth System Sciences and Remote Sensing Technologies, and NOAA Office of Education, Educational Partnership Program for fellowship support for {first name} {last name}. The statements contained within the manuscript/research article/poster are not the opinions of the funding agency or the U.S. government, but reflect the author’s opinions.
Six Monthly Report to NOAA – funding agency

Student 6-month Progress Reports

Student’s Name

Please Add or Select Below

Select a Reporting Period

Add a Student 6-month Progress Report

<table>
<thead>
<tr>
<th>Reporting Period</th>
<th>Show Report</th>
</tr>
</thead>
<tbody>
<tr>
<td>March 1, 2019 - August 31, 2019</td>
<td></td>
</tr>
<tr>
<td>Please Set Value</td>
<td>Show Report</td>
</tr>
</tbody>
</table>

Back to Dashboard
Logoff
Graduate Students NERTO

NERTO Dashboard

NERTO: NOAA Experiential Research and Training Opportunity is:
- specifically designed for Graduate Students as the primary beneficiaries. The opportunity is created to help students become aware of the NOAA mission and NOAA workforce, by interning in a NOAA lab/office for 12 weeks continuously
- can be done in multiple NOAA locations but in continuation with no intervals/break during the internship
- can also occur on a NOAA vessel/ship and any other field campaigns
- is specifically designed to augment your academic research with NOAA mission science and place-based experiential hands-on opportunities

Important Elements
- The NERTO should be conducted within a NOAA federal facility for 12 weeks continuously
- A NOAA Mentor must guide the research. The mentor must be a NOAA Federal Employee. However, a NOAA contractor (NOAA Affiliate) can be a co-mentor
- The process begins as soon as the student is admitted as a NOAA-CESSRST Fellow by signing the Letter of Understanding (LoU)
- A NERTO project does not necessarily have to be exactly what the student's research project would be. It can be in addition to their research training on the student's campus/academic lab, to help increase research and technical skills that could help advance the MS or PhD research project.

For PRE-NERTO and POST-NERTO STEPS, Visit the website below

Some Useful Example Files needed for NERTO

Click here for PRE-NERTO & POST-NERTO Website

Link to MoU File

Link to NERTO Application Cover Letter - Template
Link to Work Plan Document
**Graduate Students NERTO**

### NERTO Information and Documents

<table>
<thead>
<tr>
<th>Question</th>
<th>Answer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Where will your NERTO research internship occur?</td>
<td>Open - Possibly Maryland</td>
</tr>
<tr>
<td>When will NERTO research internship occur?</td>
<td>Open - A time after Qualifications</td>
</tr>
<tr>
<td>Who is your NOAA Mentor?</td>
<td>Robert Rabin</td>
</tr>
<tr>
<td>NERTO Title</td>
<td></td>
</tr>
</tbody>
</table>

**Upload NERTO Mentoring Form**
- Upload Report
- [Link to MoU File](#)

**Upload NERTO Work Plan**
- Upload Report
- [Link to Work Plan Document](#)

**Upload NERTO Mentor Offer Ltr**
- Upload Report
- [Link to Offer Letter Example](#)

**Other files**
- [Link to NERTO Application Cover Letter - Template](#)
- [Link to NERTO Acceptance Letter - Template](#)

### NERTO Experience Survey

Your post-NERTO feedback is important for program assessment and it will help us improve NOAA NERTO opportunities. More importantly, it will prepare you to articulate the value of your experience (perhaps during networking or job interviews). Please answer the following:

**Explain how you were involved in designing your NERTO project and your 12-week work plan?**
CESSRST Fellowship mandates RCR

Responsible Conduct of Research (RCR)

RCR covers core norms, principles, regulations, and rules governing the practice of research.
CORE COMPETENCIES

1. Technical Core Competency

2. Professional Development

3. Social Science (Human Dimensions)

http://crest.cuny.edu/moodle/

Online – take it at your own pace and before you graduate Take the quiz/survey
45 hours of certification
Why Core Competency

Attain skillsets for diverse careers

Workforce Ready!

YOU GOT THE JOB!

UNEMPLOYED
Foster a Mentor-Mentee Relationship
One Advisor - Multiple Mentors

- Program Advisors
- Faculty Advisor
- CESSRST Faculty
- Peer Mentors
- NOAA mentor
- Student Community
- Academic Advisor
- Department/University

Source: CESSRST Education

Source: wecommunities.org
NERTO – Step-by-step Process
NERTO – A Graduate NOAA Internship

12 week Internship in a NOAA Facility

NERTO report in 2 weeks after the internship

Upload the report on MIS and email to NOAA EPP

Complete NERTO Survey on the MIS

I.S.D.P. Verified
All students must have an Independent Student Development Plan in place before applying for the NERTO

Mentor provides Project Synopsis
The NOAA mentor develops a synopsis of the research and training opportunity

S.S.I.O. Posted
The NOAA mentor creates a Student Scholarship Internship Opportunity announcement, which is reviewed and approved by NOAA EPP Program office and shared with the CSCs

Student Responds to S.S.I.O. Posting
CSC Assistant Director communicates that approved S.S.I.O. posted. Student develops a 12-week plan that needs approval from the Center, their faculty advisor and NOAA

Student to NOAA Site
Student receives Award Letter from NOAA mentor and begins security and badging processes. Upon approval, student reports to NOAA facility to begin their research and training
• Under this new Cooperative agreement there is a requirement that each CSC funded graduate student must complete a NOAA internship for **a minimum of 12 weeks up to a year** in collaboration between academic advisor and NOAA mentor at a NOAA facility.

• NERTO – **NOAA Experiential Research and Training Opportunity**

• NERTO - provides opportunities for CSC collaboration with NOAA to **create a pool of candidates eligible for** the NOAA Enterprise future workforce.
NERTO Benefits

• Provide value to both the NOAA host offices and the EPP/MSI Cooperative Science Center-supported students

• Requires a minimum 12-weeks and up to one year of real-world NOAA experience to students at a NOAA facility through NOAA/EPP/MSI funding

• Provide professional development, gain new skillsets, and produce research publication(s) from NERTO projects

• Allows for an objective look at potential candidate(s) for future NOAA mission enterprise workforce
NERTO Benefits

• NERTO begins with establishing a relationship between university faculty advisors and NOAA scientists

• CSC supported graduate students, faculty advisor and NOAA mentor identify/design NERTO research project

• This NERTO project could be an opportunity for professional development and also become a part of the students research thesis

• A minimum of 12-week NERTO Internship Plan and internship start and end date are collaboratively developed, established, and shared with the EPP/MSI Program Office
Communication! Comunicación!!

- Communication, Conferences Publications
- Final Report/Project/Thesis
- Recognizing your fellowship – Acknowledgement/affiliation
- Exit and beyond (Job, graduate school)

Upload all your information promptly on the MIS system

Welcome to NOAA CESSRST E-Community
Students Yearly Calendar of Events

Jan-Feb
- Fellowship Renewal
  - ISDP Seminar & Updates
  - CWCC Research

Mar-Apr
- ISDP Seminar & Updates
- CWCC Research

May-Jun
- Fellowship Renewal
  - NERTO Summer Internships
  - ISDP Seminar & Updates
  - CWCC Research

Jul-Aug
- ISDP Seminar & Updates
  - CWCC Research

Sep-Oct
- ISDP Seminar & Updates
  - CWCC Research

Nov-Dec
- ISDP Seminar & Updates
  - CWCC Research
Resources For Current Students

Resources for Current Students

About the Fellowship

- NOAA and NOAA CESSRST Research Fellowship 101 - A quick glimpse into the Agency and how it funds the Research Fellowship
- Welcome and Informational Webinar (Fall 2018) - Download here
- Welcome and Informational Webinar (Spring 2019) - Download here
- Welcome and Informational Webinar (Fall 2019) - Download here

Fellowship Management Tools and Resources

Management Information System (MIS) (All Students)
The MIS is the online portal for managing all your Fellowship requirements. Contact Cesar Ortiz (cortiz@ccny.cuny.edu or 212-650-8890) to receive your login credentials.

Center-wide Core Competency Training (All Students)
All students must complete Core Competency training. The Courses are available on the NOAA-CESSRST Moodle site. Use your MIS login credentials to log in to the Moodle site.

Responsible Conduct in Research (RCR) Training (All Students)
RCR Training is required of all NOAA-CESSRST Fellows. Upload your Certificate to your MIS once you finish the course.

NOAA Experiential Research and Training Opportunities (NERTO) (Masters and PhD Students Only)
All NOAA-CESSRST Masters and PhD students are required to spend 12 weeks at a NOAA facility conducting research. Learn more about the process.

NOAA CESSRST Style Guide
Look here for the correct logos and for templates to use for conference presentations and posters, email signatures, and other communication.

Growth and Professional Success (GPS)
A year-long peer-mentoring program for incoming freshmen at City College of New York to help students acclimate to the college.
Branding, Affiliation: A NOAA EPP Earth System Sciences and Remote Sensing Scholar, funded by NOAA

Jane Doe
NOAA EPP Earth System Sciences and Remote Sensing Scholar Doctoral Student
Civil Engineering Department
The City College of New York, NY 212.650.xxxx | Student000@citymail.cuny.edu | www.noaacrest.org

Conference, publication, reports:

ACKNOWLEDGEMENTS:
This study is supported and monitored by The National Oceanic and Atmospheric Administration – Cooperative Science Center for Earth System Sciences and Remote Sensing Technologies (NOAA-CESSRST) under the Cooperative Agreement Grant #: NA16SEC4810008. The authors would like to thank The City College of New York, NOAA-Center for Earth System Sciences and Remote Sensing Technologies program and NOAA Office of Education, Educational Partnership Program for full fellowship support for (insert CESSRST student-authors name). The statements contained within the manuscript/research article/report are not the opinions of the funding agency or the U.S. government, but reflect the author’s opinions.

Branding yourself the right way
Building a Student Community

CESSRST Professional Club (possible ideas/thoughts)
CESSRST Socials and Affinity Group
CESSRST Homecoming Alumni Social Event (CHASE)
CESSRST STSS - Student Technical Seminar Series
CESSRST Student Corner (Blog) www.cessrst.org
Attend CESSRST Town Halls once a Semester

• A chance to:
  • Socialize with fellow students in an informal environment
  • Check in with the Center's staff and share how you are doing
Other Opportunities – CESSRST as your Gateway

• Fellowships/Scholarships/Internships
  • Lautenbacher Public Service Fellowship (2020 Applications are open)
  • Nancy Foster and Knauss Fellowship (NOAA Fellowship)
  • Hollings and EPP USP Scholarship Program (NOAA Scholarship, Fall 2020)
  • Nautilus/Okeanos STEM Internships (Field Campaign- Expedition)
If you are a Sophomore ...become the next NOAA HOLLINGS Scholar...!

Ernest F. Hollings Undergraduate Scholarship The 2021 application will open September 2020 – deadline January 31, 2021

For more details visit: https://www.noaa.gov/office-education/hollings-scholarship
If you are a Sophomore with 3.2 and above GPA

If you are attending one of the Minority Serving Institutions

Then you can apply for NOAA Undergraduate Scholarship Program

https://oedwebapps.iso.noaa.gov/uspa/

Deadline January 31, 2021
Another opportunity to sail on a NOAA Ship.

Nikola Rodriguez – 2017 NOAA USP intern says..
So, how did I get on the Okeanos Explorer as a NOAA intern?
I'm an undergrad from the University of Hawai'i at Hilo pursuing a B.S. in Marine Science with a minor in Chemistry, and she was one of eight recipients of the NOAA Educational Partnership Program (EPP) Scholarship.

Read More: https://oceanexplorer.noaa.gov/okeanos/explorations/ex1706/logs/aug1/welcome.html
Undergraduate Scholarship Program Application Portal (opens Fall 2020)

The Office of Education will begin accepting applications beginning Fall 2020
Summer Bridge – Mentors (Peer and project based learning)

- Opportunity to mentor HS students
- Opportunity to mentor – UG students/interns
How to reach us:

noaacrest@gmail.com

212-650-8099 – Main Office

212-650-8890 – César Ortiz

Visit us at: cessrst.org

To learn more about NOAA, go to: https://www.noaa.gov/

To learn more about the Department of Commerce, go to: https://www.commerce.gov/about