NOAA Center For Earth System Sciences and Remote Sensing Technologies

Student Welcome and Informational Webinar

February 15, 2019
On the Agenda

• About NOAA EPP MSI Cooperative Science Centers
• CREST Fellowship – understanding different elements
  • Recruitment – Admissions to the CREST program
    • CREST Journey
  • RCR – Responsible Research Conduct
• iSDP - Individualized Student Development Plan
• 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)
National Oceanic and Atmospheric Administration - Cooperative Science Centers (2016-2021)

• NOAA established four Cooperative Science 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 Center 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)
• **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

NOAA Earth System Sciences and Remote Sensing Technologies Partners (2016-2021)
CREST Fellowship *IS* different

A Holistic Training
- RESEARCH
- ACADEMIC
- PROFESSIONAL

Prepare you
- Future workforce, or
- Further studies
NOAA CREST : Journey At a Glance

- LoU
- iSDP
- RCR

Core Competency

Internships

Assessment/Exit Surveys

Research Training

Conference, Publications
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-CREST fellowship**
- **Travel budget and procedure**
- **Participate in assessment, surveys & evaluations**
- **Waivers for social media and other media**
- **Fellowship award specifics**
Steps to LoU

1. Review it with Cesar Ortiz and Georgina Fekete

2. Mentor-Mentee agreement signature

3. Center Director (or his Designee) Signs the document

4. Upload your LoU on the MIS
Professional Advancement and Career Engagement
iSDP a living document

CREATE A Road map

REPORT Your Success

ASSESS Your Benchmarks

EXECUTE Your Plans and Achieve your Goals

COMMUNICATE Identify your Goals

iSDP - Continuous process for Improvement

Mapping & tracking your career goals || Reporting, Assessment/Evaluation
CREST Fellowship mandates RCR

Responsible Conduct of Research (RCR)

RCR covers core norms, principles, regulations, and rules governing the practice of research.
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
- Peer Mentors
- NOAA mentor
- Social Science Mentor
- Academic Advisor
- Department/University
- CREST Faculty

Source: CREST Education

Source: wecommunities.org
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

NERTO – A Graduate NOAA Internship

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
NERTO Purpose & Need

• 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 upto 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 candidate eligible for** the NOAA Enterprise future workforce.
• 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 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 an opportunity of 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.
NERTO – Step-by-step Process
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.
Students Yearly Calendar of Events

- **Jan-Feb**: Fellowship Renewal
  - iSDP Seminar
  - CWCC Research

- **Mar-Apr**: Fellowship Renewal
  - iSDP Seminar
  - CWCC Research

- **May-Jun**: Fellowship Renewal
  - NERTO Summer Internships
  - iSDP

- **Jul-Aug**: Fellowship Renewal
  - iSDP Seminar
  - CWCC Research

- **Sep-Oct**: Fellowship Renewal
  - iSDP Seminar
  - CWCC Research

- **Nov-Dec**: Fellowship Renewal
  - iSDP Seminar
  - CWCC Research
Conference, publication, reports:

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Building a Student Community

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

- A chance to:
  - Socialize with fellow students in an informal environment
  - Check in with the Center's staff about how you are doing
Other Opportunities and Fellowships

• Lautenbacher Public Service Fellowship (2019 Applications are open)
• Nancy Foster and Knauss Fellowship (NOAA Fellowship)
• Hollings and EPP USP Scholarship Program (NOAA Fellowship)
• Nautilus/Okeanos STEM Internships (Field Campaign- Expedition)
If you are a Sophomore ...become the next NOAA HOLLINGS Scholar...!

Ernest F. Hollings Undergraduate Scholarship The 2019 application is now open- deadline January 31, 2019

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, 2018
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/oce anos/explorations/ex1706/logs/aug1/welcome.html
CREST Partner Institution PIs

Hampton University
Dr. Pat McCormick

U. of MD Baltimore County
Dr. Ruben Delgado

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

U. of Puerto Rico at Mayaguez
Dr. Rafael Rodriguez Solis

San Diego State University
Dr. Walter Oechel
Summer Bridge – Mentors (Peer and project based learning)

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

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Visit us at: noaacrest.org