Cybersecurity & Technology

A Day In the Life of Jennifer Dickens

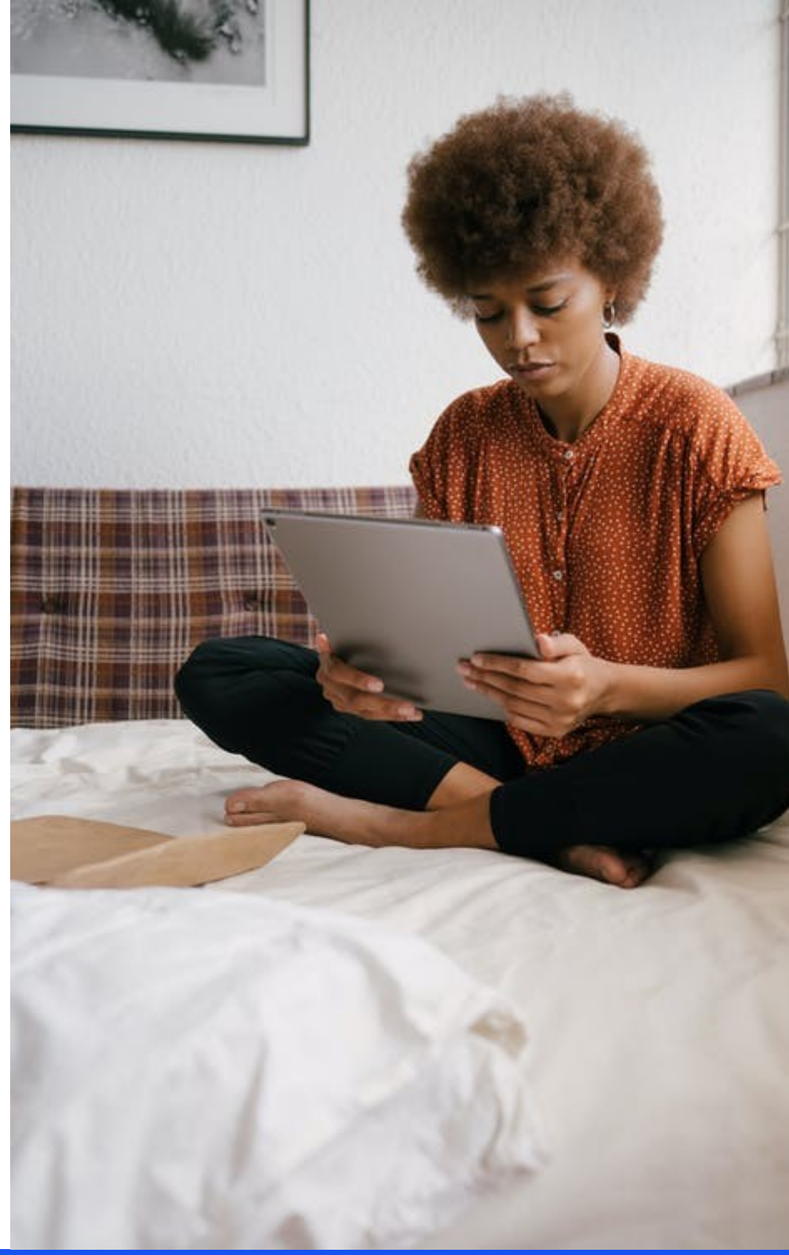


Table of Contents

- 20 years of strategic solutions and innovative IT initiatives in the Federal Government.
- 2020 Women of Color Magazine, Technology Rising Star award winner
- STEM leadership in the Federal Government and the community

Road To Cybersecurity

My Own Road to Cybersecurity

1. North Carolina A&T State Computer Science Degree
2. Acquired First Job Undergrad @NASA
3. Developed Mentors with women leaders at NASA in the areas of engineering and science
4. Began mentoring and joining organizations which focused on STEM/STEAM
5. Continued to pursue work which was focused in STEM areas - developed SME/Brand
6. Acquired MBA/MS in Procurement Contract Mangement
7. Hired to join NOAA in the Cybersecurity division due to my vast background in IT and strength in business
8. Currently am pursuing the CISM, a PM on NOAA's first unclassified insider threat-lite program, and PM for its first foreign national oversight initiative

Impactful IT Projects

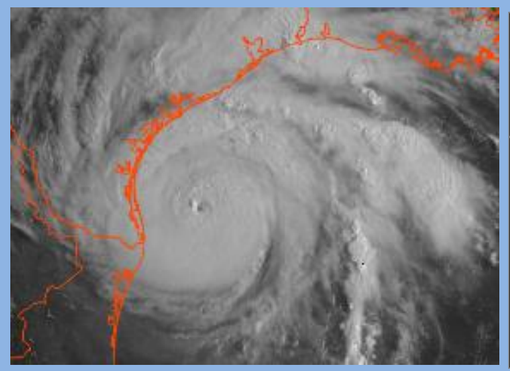
NASA - GOES-R Series

Provide advanced imagery and atmospheric measurements of Earth's Western Hemisphere, real-time mapping of lightning activity, and improved monitoring of solar activity and space weather.

GOES-R Series

- GOES-R is the newest generation of United States geostationary weather satellites
- Four satellites in the series: GOES-R, S, T and U will operate over the 2016-2035 timeframe
- Joint mission between NOAA and NASA

Earth Weather



Visible & IR Imaging

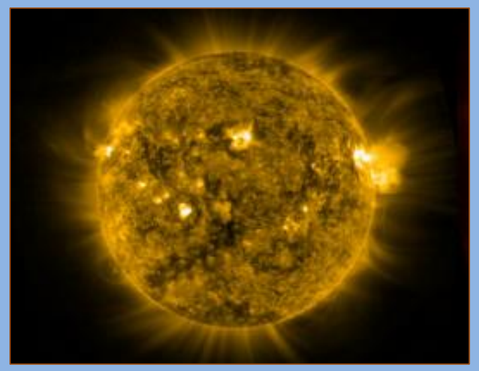
Lightning Mapping

- ✓ **Improve hurricane track & intensity forecasts**
- ✓ **Enable better detection and tracking of wildfires**
- ✓ **Increase thunderstorm & tornado warning lead time**
- ✓ **Improve aviation flight route planning**
- ✓ **Data for long-term climate variability studies**

Space Weather

In Situ Monitoring

Solar Weather



Solar Imaging

- ✓ **Improve solar flare warnings for communications and navigation disruptions**
- ✓ **More accurate monitoring of energetic particles for radiation hazards to humans and spacecraft**
- ✓ **Better monitoring of Coronal Mass Ejections to improve geomagnetic storm forecasting**

NOAA- Internal Risk Mitigation Program

Protect against potential Insider Threats to NOAA's critical assets: people, information, technology, and facilities.

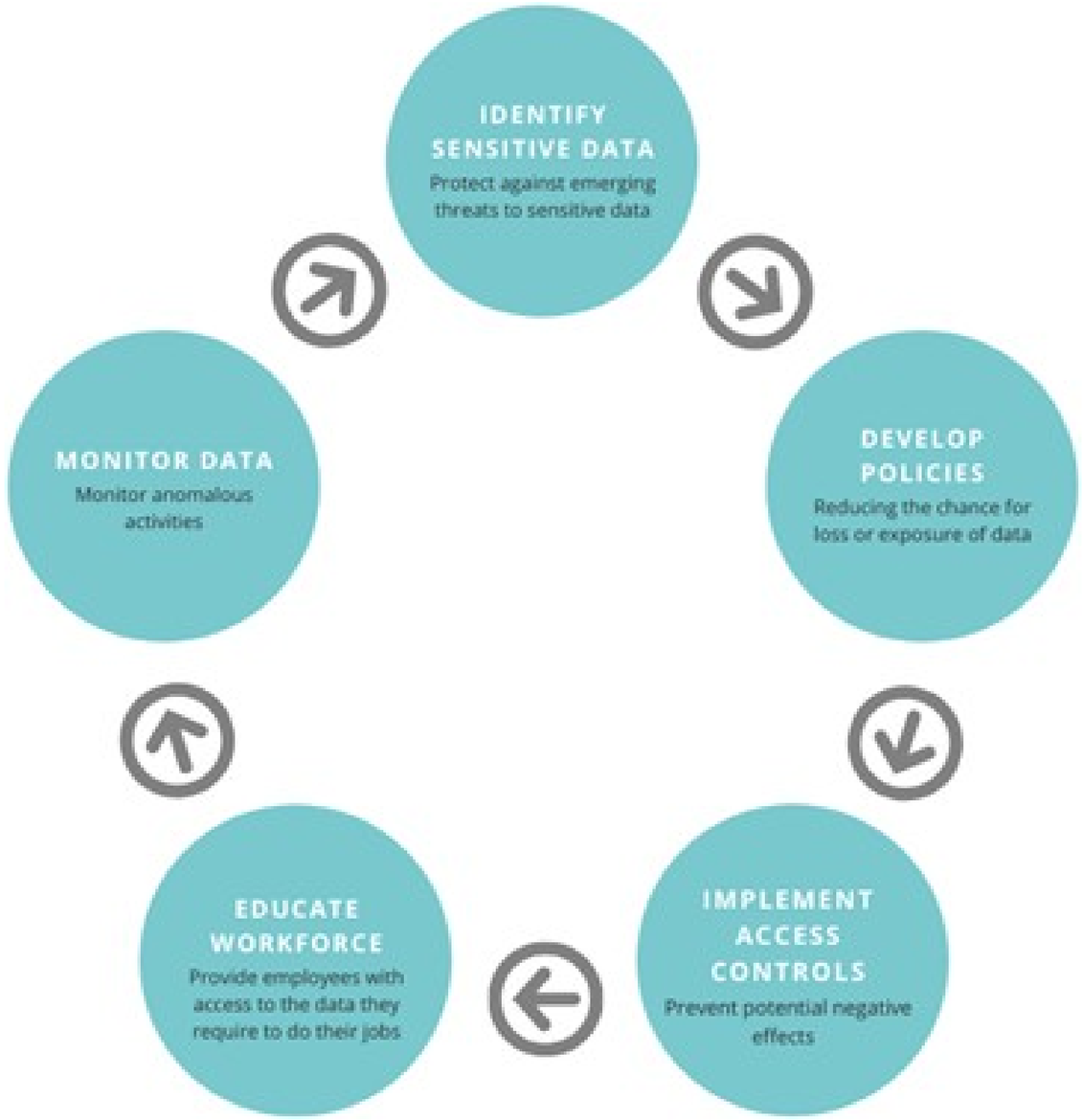
Protect against emerging threats to sensitive data

Reducing the chance for loss or exposure of data

Prevent potential negative impacts

Provide employees with access to the data they require to do their jobs

Monitor anomalous activities



Strategies

Strategies for Development

1

Stay Woke.
Stay informed on where technology is going and advancing. Be in front of the trend and know your role in it.

2

Seek Mentors.
Mentors are one of the best relationships you will ever have in your career. They will guide you through, be your advocate, and challenge you to think differently. It is all for growth.

3

Gain perspective.
Take an innovative approach to solving problems. Or what I like to call 'opportunities.' Research game-changing industry breakthroughs to help resolve your issues.

Strategies for Development

4 **Keep Learning.**
Continue to learn whether it is formal or informal training, certifications, and seminars. Join professional organizations in your field of interest.

5 **STEM careers are infinite.**
For those considering STEM, please know, STEM careers are not one-dimensional. For example, a Bioacoustic Researcher records the sounds of wildlife. This, too, is a STEM career and may support the work we do here at NOAA.

Thank You

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