

## **Biography of Concha Callwood Reid**

Concha Reid has been a battery and energy storage specialist at NASA Glenn Research Center for 13 years. For six years, Ms. Reid served as the co-Principal Investigator for NASA's Advanced Space Power Systems Project (formerly the Exploration Technology Development Program Energy Storage Project). The goal of this project is to develop advanced battery cell chemistries and aerospace flightweight cells for NASA's envisioned missions to the moon, Mars, and near Earth objects.

Ms. Reid's duties at NASA have included the development and demonstration of advanced battery technologies for applications such as:

- the Advanced Extravehicular Activities spacesuit for lunar surface exploration;
- the Altair Lunar Lander;
- and rovers, with the goal to enhance and enable human and robotic exploration.

Ms. Reid has served as an integral part of teams to develop power and energy storage systems for:

- NASA's Advanced Modular Power Systems project;
- The advanced spacesuit;
- The Ares Crew Launch Vehicle;
- the Orion Crew Exploration Vehicle;

and other components of mission architectures designed to enable astronauts to explore the moon, Mars and other destinations.

Over the past two years, Ms. Reid has worked with the NASA Engineering Safety Center (NESC) Power Technical Discipline Team on multiple tasks to assess the safety, quality, reliability and suitability of lithium-based batteries currently deployed on NASA missions and to develop a NASA standard for batteries for use in space.

Ms. Reid is currently detailed to the Orion European Service Module Integration Office where she is serving as the Deputy Manager for Bilateral Exchanges. In this role, Ms. Reid is managing the exchange of hardware, software, and data between NASA and the European Space Agency for the first crewed flight of Orion.

Ms. Reid holds BS and MS degrees in electrical engineering from Louisiana State University and Virginia Polytechnic Institute, respectively.



[CAPTION and PHOTO CREDIT]  
NASA engineer Concha Reid measures anode material cast on copper film at the Glenn Research Center. This work improves performance of batteries for aerospace [#research](#)  
Image by [NASA Glenn Research](#) @NASAGlenn

**HEADSHOTS: CONCHA CALLWOOD REID**

