



# NASA Glenn Faculty Fellowship Program

## Glenn Research Center

**Office/Division Name:** LCP

**Branch Name:** Optics and Photonics Branch

**Research/Engineering Area / Topic:** Hyperspectral Remote Sensing of Water Quality For Fresh Water Systems

**Description of Research/Engineering Work to Be Performed**

Research and Development to improve processing techniques for the differentiation of water constituents in freshwater systems utilizing hyperspectral imaging.

**Brief background and NASA mission/program support**

Science Mission Directorate - to support water quality efforts

**Objective(s) of project**

Differentiation of water constituents in fresh water systems utilizing hyperspectral imaging.

**Specific Faculty Fellow Assignment**

Utilize remote sensing data and perform algorithm development for water constituent differentiation

**Expected Outcome(s)**

Remote Sensing Algorithms applicable to freshwater systems and research papers documenting

**Contact:** [GRC-NGFFP@mail.nasa.gov](mailto:GRC-NGFFP@mail.nasa.gov)