

**Faculty Name:**

CHRISTINE HENDON

**Faculty Email:**

CPF2115@COLUMBIA.EDU

**Lab:**

STRUCTURE FUNCTION IMAGING LABORATORY

**Project Title:**

Automated Classification of Optical Images of Uterine Cancer

**Description:**

Tissue optical properties provide a fast readout of tissue pathology and measurements of tissue fiber structure, morphology, and directionality. Summer researchers will aid in developing a database of optical coherence tomography and near infrared spectroscopy characterization of uterine fibroids with registered histology. Image and signal processing algorithms will be used to measure tissue architecture and optical properties. Students will also aid in developing custom automated algorithms to classify areas within optical images as cancer or normal

**Location of Research:**

On Site

**# of hrs/week:**

30

**Department/Program:**

Electrical Engineering

**Eligibility:**

BS, First Year, BS, Second Year, BS, Third Year, BS, Fourth Year, MS

**To apply, please contact:**

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