

Sikorsky Aircraft  
6900 Main St  
Stratford, CT

## NASA Space Grant Opportunity:

Fellowship     Project

### Short-range Wireless Technology for Helicopter Avionics Interconnects

**Available for:** 1 student (US Citizen Not Required)

**Organization:** Sikorsky Aircraft  
Mission Systems Integration

**Technical Lead:** Dr. Brian McCabe

**Sikorsky Space Grant Project Coordinators:** Steven Weiner, 203-386-3776  
Robert Frawley, 203-386-3033

#### Description

The cost, weight and complexity of aircraft wiring is rapidly increasing as new avionics capabilities are introduced. Short-range wireless technology holds promise for significant weight savings, product simplification, assembly cost reduction, increased life cycle upgrade and support flexibility, and ultimately increased aircraft functionality.

This project would address some of the many challenges involved in the application of wireless technology to aircraft and specifically helicopters. Details of the proposed work should be discussed with the Technical Lead so that the project can be defined within the student's capability and resources.

#### Skills Required

- At least senior level standing in undergraduate electrical engineering

#### Helpful Skills

- Some knowledge of spread spectrum communication
- Basic electromagnetics