

# STUDENTS WHO WOULD LIKE TO PURSUE A MASTERS OR A DOCTORAL DEGREE

IF YOU WOULD LIKE TO PERFORM RESEARCH ACTIVITIES IN THE FOLLOWING AREAS, PLEASE STOP BY MY OFFICE AT B-314 IN ORDER TO DISCUSS THE DETAILS.

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## RESEARCH AREAS

### ■ Vibrations

- Nonlinear / Linear
- Vibrations of (Mistuned/Tuned) Turbine Blades / Bladed Disks (Blisks or Integrated Bladed Disks)
- Identification of Mistuning
- Identification of Nonlinearities
- Structural Modifications
- Vibration Damping
- Vibration Control

### ■ Friction Contact Modeling

- Friction Damping, Friction Dampers
- Forced Response Prediction of Bladed-Disks (Jet Engines)
- Forced Response of Structures with Friction Dampers

### ■ Automotive Engineering

### ■ Vibrations of Carbon Nanotubes

- Nonlinear / Linear

### ■ Nonlinear Vibrations of Micro & Nano Beams and Plates

- Local, Nonlocal, Homogeneous, FGM
- MEMS, NEMS

### ■ Gear Dynamics

### ■ Dynamics of Machinery

- Linear and Nonlinear Dynamics of Machine Tools
- Chatter Vibrations

### ■ Analysis of Systems with Fluid-Structure Coupling

### ■ Dynamic Analysis and Control of Engineering Systems