

# Research Focus – Dr. Zara

## Ultrasound and Optical Imaging

- My primary area of research focus is instrumentation design and development for ultrasound and optical imaging
- These techniques can be used to diagnose skin and GI tract cancers, and also used to view arterial plaques and arterial stent placements
- May be able to reduce the number of surgeries and biopsies required for patients

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- Work involves computer modeling, assembling prototype devices, and testing them in suitable test phantoms, and eventually patients
- Also work in applications of IC fabrication (MEMS devices) to medical devices

# What can you do with a BME degree?

There are two primary options for a graduate with a bachelors degree in biomedical engineering

1. **Go get a job.** Pursue a career in industry
2. **More schooling.** Pursue and advanced degree