

# Biomedical and General Engineering Department

## *Faculty Areas of Interest*

<p><b>Kristen O’Halloran Cardinal, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Tissue engineered “blood vessel mimics” ▶Bioreactor design</li> <li>▶Intravascular imaging and assessment techniques</li> <li>▶Stent development</li> <li>▶Stent healing capabilities.</li> </ul>
<p><b>Trevor Cardinal, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Vascular biology</li> <li>▶Vascular and muscle repair</li> <li>▶Exercise therapy</li> </ul>
<p><b>David Clague, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Non invasive cellular biopsy via Impedance sensing</li> <li>▶Non-invasive/ minimally invasive systems for detection of disease biomarkers.</li> </ul>
<p><b>Robert Crockett, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Technology Management</li> <li>▶Advanced Product Development / Materials / Manufacturing Techniques</li> </ul>
<p><b>Lanny Griffin, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Bone mechanics</li> <li>▶Biomaterials</li> <li>▶Fracture and fatigue</li> <li>▶Modeling</li> <li>▶Medical Device Evaluation</li> </ul>
<p><b>Scott Hazelwood, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Orthopaedic biomechanics</li> <li>▶Bone mechanics</li> <li>▶Effects of aging, exercise, disease, and the treatment of disease on the bone remodeling process.</li> </ul>
<p><b>Lily Laiho, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Biomedical imaging</li> <li>▶Optical biopsy</li> <li>▶Spectroscopy</li> <li>▶Biomedical device product development</li> </ul>
<p><b>Robert Szlavik, PhD</b></p>	<ul style="list-style-type: none"> <li>▶Neural-electronics</li> <li>▶Mathematical modeling of the electrical behavior of neurological systems.</li> </ul>