



# High School Engineering Electro-Optics Summer Camp

**This 4 day camp is taught by Dr. Benjamin Campbell and introduces students to electro-optics and microcontrollers. No background in these areas is needed to participate.**

Electro-optics technology surrounds us, hidden from the untrained observer. Examples include the touch screen of a smart phone, ultraviolet lasers that read data from a DVD, internet information streaming across the globe on fiber optics cables and more. During this camp, students will learn the basic principles of electronics and how to use several engineering tools including: multimeters, function generators, oscilloscopes, breadboards and circuit design software and more. Through hands-on activities, students will learn about the properties of photons and lasers and learn how to use Arduinos to control lights and sensors.

**For more information: Sarah MacDonald**  
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**July 25-28, 2016**

**10am-3pm**

**Robert Morris University**

**John Jay Center**

**\$75**

