



Engineering Research Proposal Topics

- Work with renewable energy sources and use sensors to measure heat generated from solar panels.
- Develop a olfactory biosensor to detect chemical traces
- Take advantage of nanotechnology to design blood sugar sensors
- Implement a carbon index measurement system
- Develop ways of recognizing and getting rid of pollutants
- Use process mapping to assist supply chains
- Use mapping to remove waste from energy intensive sites
- Increase the efficiency of electrical processes to reduce kWh usage
- Find ways of measuring the flow of gas with ultrasound
- Use water conductivity probes to evaluate water quality
- Investigate ways of normalizing output to kWh
- Develop means of making sure energy is used efficiently by electrical machines
- Look at transformer losses to work out how to reduce energy loss
- Investigate metering techniques to control efficiency
- Develop smart metering concepts for electricity usage
- Use wireless networks and access to real time data in order to reduce energy wastage
- Assist in the conception of of sustainable homes
- Optimize sustainability in processes within an organization
- Look enabling sustainable heat conservation generated within a manufacturing site
- Help to develop water treatment processes
- Develop remote sensing applications
- Assist in the development of novel nanomaterials
- Investigate optimal and millimeter wave communication
- Examine microwave remote sensing opportunities
- Work on improving emission in single photon sources



- Analyze the latest developments in magnetic resonance imaging
- Take a look at photonic surfaces
- Improve the technology used for conducting ultrasound breast biopsies
- Develop means of measuring accurately doses used in radiation therapy
- Work on the modeling of biomedical systems

For more topic ideas click here!