



## Louisville Regional Science & Engineering Fair

Kentucky Science Center

727 West Main St.

Louisville, KY 40202

[lrsef.org](http://lrsef.org)

### **BEST of FAIR Winners Awarded at LRSEF 2019 on March 2** (*listed in no particular order*)

#### **GE Appliances BEST of FAIR Junior Level** (3 projects)

Individual Trophy made at First Build by GE Appliances volunteers and \$240 for each project.

- **Mary Ballantine** - Saint Francis of Assisi, Louisville
- *Automotive Exhaust: A Selective Environment for Bacteria*
- Microbiology
  
- **Henry Murr** - St. Francis of Assisi, Louisville
- *Noninvasive Drug Testing via Raspberry Pi*
- Embedded Systems
  
- **Katie Quinn** - St. Francis of Assisi, Louisville
- *Exploring the Impact of Atrazine on Childhood Learning*
- Cellular and Molecular Biology

#### **GE Appliances BEST OF FAIR Senior Level** (4 projects)

Individual Trophy made at First Build by GE Appliances volunteers and \$420 for each project & travel grant to the International Science & Engineering Fair in Phoenix, AZ, May 12-17, 2019.

- **Abdullah Ateyeh & Rithik Reddy** - Gatton Academy of Science & Mathematics, Bowling Green - Computational Biology and Bioinformatics
- *Finding the Most Influential Factors Which Control the Healing of Chronic Wounds*
  
- **Vaitheesh Jaganathan** - Ballard High School, Louisville -Translational Medical Science
- *Tender Coconut Water Inhibits the Growth of HepG2 Cancer Cell by Reversing 'Epithelial to Mesenchymal Transition' Process*
  
- **Sasha Sairajeev** - Gatton Academy of Science & Mathematics, Bowling Green
- Biochemistry
- *Synthesis of platinum anticancer compound oxalato(1,4-dimethylpiperzine)platinum(II)*
  
- **Rachel Spaulding** - Eastern High School, Louisville - Engineering Mechanics
- *Solar Updraft Tower-Wind Turbine Hybrid: Maximizing Power Output through Vortex Shedding, Water Droplet Atomization and Arduino Servo Control Feedback Loop*