



## 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 & 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*  
\*\*\*Rachel won ISEF trip at KYSEF, so 5<sup>th</sup> place winner gets ISEF grant from state.

\*\*\* **Zachary Schneider** – St. Xavier High School, Louisville – Environmental Engineering  
*Pressure Assisted Cryogenic Carbon Dioxide Extraction – ISEF grant from KYSEF.*