

# Technology Transfer & Commercialization

We help university researchers protect their intellectual property, evaluate its commercial potential, and license these novel technologies to industry to produce products

## FY2019 Statistics

**13**

inventions  
disclosed

**3**

patent  
applications  
filed

**3**

issued  
US patents

**1**

patent  
license

**8**

departments  
disclosing  
inventions



**138 inventors**

across 25 departments at all  
three university campuses



**101 inventions**

have been disclosed leading to  
38 patent applications



**15 patents**

have been awarded to  
Embry-Riddle since 2005

## FY 2019 Patent Portfolio:

### ISSUED PATENTS

- U.S. 10,275,219 “Bit-serial multiplier for FPGA applications” Akhan Almagambetov, Holly R. Ross.
- U.S. 10,151,772 “Hot wire anemometer” Michael S. Potash, Alfred D. Helfrick.
- U.S. 10,071,855 “Floating active baffles, system and method of slosh damping” Daewon Kim, Rudy L. Baum, Vijay Santhanam, Balaji Sivasubramanian, Sathya Gangadharan.
- U.S. 10,071,825 “Hybrid magneto-active propellant management device for active slosh damping in spacecraft” Balaji Sivasubramanian, Leader Paul, Sathya Gangadharan.
- U.S. 9,845,600 “Highly vented truss wall honeycomb structures and methods of fabrication” David J. Sypeck.
- U.S. 9,625,913 “System and method for robust nonlinear regulation control of unmanned aerial vehicles using synthetic jet actuators” Vladimir V. Golubev, William MacKunis.
- U.S. 9,586,632 “Optimizing jets for wake control of ground vehicles” Domenic Barsotti, Sandra Boetcher.
- U.S. 9,534,608 “Multi-stage axial compressor with counter-rotation” Vinod Gehlot, Magdy S. Attia, Divyam Garg.
- U.S. 9,369,160 “Communication system using signal modulation” William C. Barott.
- U.S. 9,353,754 “Multi-stage axial compressor with counter-rotation using an accessory drive” Vinod Gehlot, Magdy S. Attia.
- U.S. 9,254,922 “Hybrid assembly for an aircraft” Richard Anderson, Lori Costello, Charles Eastlake, Glenn P. Greiner.
- U.S. 9,102,326 “Hybrid clutch assembly for an aircraft” Richard Anderson, Charles N. Eastlake, Matt Gonitzke, Glen P. Greiner.
- U.S. 8,998,126 “Lift generating device” Juan A. Alvarado Valverde.
- U.S. 8,095,314 “Generation of four dimensional grid of probabilistic hazards for use by decision support tools” Ian A. Wilson
- U.S. 7,184,883 “GPS-based steering needle instrument” Carl Edward Wischmeyer.

### PENDING PATENT APPLICATIONS\*

- U.S. 2019/0166383 “Reduced multiplicative complexity discrete cosine transform (DCT) circuitry” Sirani Kanchana Mututhanthrige Perera.
- U.S. 2018/0277740 “Helical Dielectric elastomer actuator” Daewon Kim.
- U.S. 2018/0327081 “Systems and methods for noise mitigation for hybrid and electric aircraft” Lenny Gartenberg, Richard P. Anderson, Borja Martos.
- U.S. 2017/0291580 “Heating element including carbon nanotube (CNT) layer” Santhosh Kumar Loganathan, Virginie Rollin, Daewon Kim.

\*Patent applications that have not yet published for public inspection are not listed here