



The *UCF IEEE Photonics Society* is hosting a *Demo Design Competition* to encourage undergraduate and graduate students to design and build creative demonstrations that showcase some aspect of optics. Design and build up your own eye-catching demonstration that will encourage young students to pursue STEM careers. Demos will be used during STEM Day, Optics Day and other outreach programs! **This is a great chance for you to enhance your knowledge, develop teamwork skills, build something cool and create a positive impact in our community! Your design will be demonstrated in CREOL lobby with your name for years. And the prize will certainly highlight your resume in the job market!**

Rules:

1. Each team consists of 2-5 people (Open to **both** graduates and undergraduates).
2. Each team is expected to submit a **technical proposal** of its demonstration by **Friday, Dec. 14th, 2017**. The proposal should include the following parts (templates provided on <https://ieee.creol.ucf.edu/>):
 - Names of team members & point of contact
 - Description of the scientific phenomenon / technology
 - Technical description of the system set-up
 - Detailed budget of the parts to be purchased
3. IEEE committee will evaluate the designs on creativity, feasibility, stability and cost-efficiency to select up to three teams for the build-up stage. The feedback shall be sent on Dec 19th, 2017 through email.
4. Each selected team will receive up to \$500 sponsorship and have three months (January to March 2018) to build the demonstration. The amount of sponsorship depends on the budget listed in the proposal and is not for personal use.
5. The final winners will be determined by industry judges and students on Optics Day (April 2018).

Awards: \$200 for the winning team; \$50 for functional demos from second/third place teams.

Events	Time	Presenter
Competition announcement	Oct 18th, 2018	Zheyuan Zhu
Industrial lecture: careers in Optics lasering	Oct 29th, 2018	James Chung/ Northop Grumman
Proposal training panel	Nov 28th, 2018	Dr. Ronald Driggers
Proposal Due	Dec 14th, 2018	NA
Feedbacks for proposals and discussion	Dec 19th, 2018	Lawrence Trask, Zheyuan Zhu and Sandy Cline
Build-up section	From January to March 2019	NA
Demonstration day: Optics day	End of March, 2019	
Award ceremony	Second week of April	

What are you waiting for? Form your team and sign up now! Please send the title of your demonstration, team leader name/department/contact information to Zheyuan Zhu (zyzhu@knights.ucf.edu). Just feel free to contact us or go to <http://ieee.creol.ucf.edu/> for more information!