



RADIANCE TECHNOLOGIES INNOVATION BOWL TO GIVE AWAY

\$25,000 PRIZE

Radiance Technologies and the Independence Bowl Foundation proudly present the 2022-2023 Radiance Technologies Innovation Bowl. The Radiance Technologies Innovation Bowl is an academic competition between schools and conferences affiliated with the Radiance Technologies Independence Bowl. Schools compete for a \$25,000 grand prize by developing innovative approaches to a current research and development topic selected by Radiance Technologies, see below. Evaluation of submissions is a two-step process where teams submit their ideas and approaches to Radiance Technologies prior to the end of the fall term. Scientists and researchers within Radiance Technologies will pick three finalists, announced at the Radiance Technologies Independence Bowl. These teams will then further develop their ideas in the spring semester through prototypes, models and simulation or experimentation and present their findings in person to a panel of experts. From these live presentations, a winning team will be selected and awarded the \$25,000 grand prize.

This year's challenge topic:
How can GEOSPATIAL Intelligence data be used to monitor, assess, and predict the impact of climate change?

Geospatial Intelligence (GEOINT) is the information obtained for a particular geographical location through the exploitation of imagery and geospatial data. GEOINT uses overhead imagery from various Electro Optical/Infrared (EO/IR) sensors (images) combined with imagery analysis (determining what is in the image) and other geospatial data (characteristic reference information for the location, e.g., elevation, road and utility networks, vegetation, population, geodetic data, etc.). This combination provides the situational awareness of what is occurring or changing at a particular location. In this regard, GEOINT can monitor the effects of climate change. For instance, it would be possible to monitor the amount of precipitation within a region and correlate that with water usage to predict potential shortages which may lead to major population disruptions and potential conflicts. This effort is seeking innovative ways and means to employ GEOINT capabilities to monitor climate change. It seeks not only to identify the effects of climate change but to correlate these events with activities and patterns to predict areas and regions of concern. It is expected that innovative ideas are supported with examples, simulations or other means to validate the approach along with identification of the types of data sources used and accessed.

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