

EDUCATIONAL MEGA-CHALLENGE

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To engage and interest **undergraduate** and **graduate students** and their **advisors**, the new IEEE Council on RFID (CRFID) is offering a competition that addresses real-world problems and is:

- Open to any accredited, degree-program educational institution
- Composed of teams with at least one IEEE student member and at least one advisor who is an IEEE member

2017 CHALLENGE: SMART CITIES

The 2017 challenge focuses on the use of radio frequency identification **RFID in Smart Cities**. Teams will be rated on how they plan and evaluate a solution that incorporates RFID technology and systems. Teams are asked to prepare as if responding to a request for proposal (RFP).

- The team will choose a city and a problem it faces that can be addressed by a smart city solution (e.g., traffic flow, mass transit, infrastructure support, revenue collections, parks management, etc.)

- The team will identify a solution that includes the use of RFID.

For support from the **RAIN RFID Alliance**, passive UHF RFID must be included in the solution.

- The team will identify the steps needed to implement the solution.

- Submissions must be an **8-10-page summary**, which includes:

- Problem statement
- Proposed solution
- Differentiator (why this solution vs. others)

- Resource summary (Personnel and equipment)
- Team summary – bios, function
- **Optional bonus points for:**
 - A paper prepared for a CRFID peer-reviewed conference proceedings.
 - YouTube video or privately available video /slide show.
 - Partnering with an Industry Advisor from RAIN RFID Alliance
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- **Use of other resources, for example:**
 - IEEE's Smart Cities initiative has a repository of publications
 - the US federal government recently announced it is committing over \$80 million – led by NSF with a \$60M commitment over two years – toward the Smart Cities Initiative
 - equipment sponsored by a RAIN RFID Alliance member

DEADLINE: JANUARY 31, 2017

Judges from IEEE CRFID and the RAIN RFID Alliance will select the top three teams to present at the IEEE RFID 2017 conference at the RFID Journal Live! event in Phoenix, Arizona in May 2017. Up to \$5,000 (USD) student travel support is available from IEEE CRFID and the RAIN RFID Alliance. Alliance members will prep presenters whose solution uses passive UHF.



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