

# Top ten teams in Spectrum-Sharing Radio Contest (Spectrum-ShaRC) Phase 1 Announced

Virginia Tech announced the top ten teams in the first phase of its [Spectrum-Sharing Radio Contest \(Spectrum-ShaRC\)](#). Each team developed source code for a controller that adapts settings of a radio, such as frequency, power level, digital modulation format, and error-correction coding, to allow the radio to transmit data to another radio in challenging interference environments. Each submitted radio controller design was tested using the CORNET (cognitive radio network) testbed in Kelly Hall on the main campus of Virginia Tech in Blacksburg, VA. Radio / controller combinations were tested in one scenario that included ambient interference and noise and in twelve additional scenarios that included deliberately introduced interfering signals with a variety of characteristics. Because each team's radio design was tested separately from the others, rather than in head-to-head competition, similarly-performing radio designs were deemed to have tied if differences in their scores were not found to be statistically significant. Future phases will emphasize different aspects of radio performance, and a final competition will be held at the [Wireless @ Virginia Tech Symposium](#) June 1-3, 2016.

## Top Ten Teams in Spectrum-ShaRC Phase 1

1. (3-way tie)
  - Skyнет Team (University of Crete, CS Dept.)
  - Spectral Rangers (NYU Tandon School of Engineering)
  - Tennessee Tech Telecom (Tennessee Tech University)
4. MPACT FIU (Florida International University)
5. Dinamico (NC State)
6. SharcNet (CU Boulder)
7. Wireless Freqs (Old Dominion University)
8. (3-way tie)
  - The Bobs (Virginia Tech Hume Center)
  - Purdue Boilermakers (Purdue University)
  - The Serrano Peppers (Cooper Union)