

# 2018 Spectrum ShaRC Rules and Regulations

1. In the final competition, the top four qualifying teams will compete head-to-head in a single-elimination tournament. Each pair of teams that face each other in the tournament will compete in two consecutive matches, switching sets of nodes between matches to equalize any differences due to radio locations or hardware. The cumulative score of the two matches will determine the winner. If needed, a third match will be held with the set of nodes to be used by each team determined randomly, for example, by coin toss.
2. Travel support will be provided for up to two participants per team for the top 4 qualifying teams, up to a limit of \$1,000 per student participant. This support will be allocated first to the top qualifying team and will include other qualifying teams as funds permit, in order of their performance in the earlier rounds of the challenge. Additional funding is being sought that would allow us to provide travel support for two participants from each of the eight qualifying teams. Those teams who do not qualify for travel reimbursement will be able to compete remotely using WebEx or at their own expense.
3. No more than two teams per institution may qualify for the final competition.
4. If two teams from the same institution qualify for the final competition, they will face each other in an elimination match and the winner will participate in the final tournament.
5. You must submit code in Phase One in order to advance to Phase Two. You must submit code in Phase Two to qualify for the third and final round. Scored of late entries will be reduced.
6. You must be 18 years old as of December 31, 2018 in order to compete!

## **Support:**

1. Written instructions and other documentation will be provided.
2. Virginia Tech wireless researchers will be able to answer questions by email.
3. Teams will be given accounts on Virginia Tech's Cognitive Radio Network Testbed (CORNET).
4. Each team will be given working code for a software defined radio waveform with basic controller and the test and evaluation software that are used by the contest organizers.

## Conditions of Participation

1. Virginia Tech (VT) and its research collaborators will have a no-cost, royalty free, nonexclusive license to use the entry (code and documentation) for research. Thus, VT keeps the entries. Entries will not be shared with VT students or faculty who participate in or advise teams for the duration of Spectrum-ShaRC.
2. VT will provide space to store files of participating teams. During the competition, VT will take reasonable measures to restrict access to each team's files only to that team's members and to Virginia Tech personnel who are not Spectrum-ShaRC team participants or team advisors. . However, VT is not liable for loss or corruption of electronic files or for loss of points or competitive advantage in the challenge due to hardware or software failures, human error, or any other causes, or for unauthorized access to files by other parties and any associated detrimental effects to affected team or teams.
3. Participating teams are encouraged to make frequent backups of all of their files in case files stored on VT's CORNET servers are lost or corrupted.
4. The faculty advisor and participants in this challenge are responsible for complying with all applicable laws, regulations, and restrictions, including export restrictions and Federal Communications Commission rules, and for protection of any proprietary information or items used in the challenge. **Each team that is invited to the final competition will give a brief presentation on their work for the challenge and provide a report of up to 4,000 words plus figures and tables, to be posted on the Spectrum-ShaRC website. This report must be submitted by the date specified. Teams that fail to submit reports by the deadline will not be permitted to compete in the final competition**
4. Participants who attend the final competition at Virginia Tech will attend all challenge-related events, including those hosted by challenge sponsors.
5. Any visit to Virginia Tech by a foreign national is subject to an export compliance review. Please refer to <http://www.iss.vt.edu/index.php/vt-department-host/visitor-b-visa-waiver> for more information.

## WAIVER

As a participant in the 2018 Spectrum Sharing Radio Challenge (Spectrum ShaRC2), I will indemnify, hold harmless, and defend Virginia Tech (VT) and its employees and volunteers from all liability from loss, damage, or injury , or property in any manner arising out of my participating in the 2018 Spectrum-ShaRC Challenge at Virginia Tech's Blacksburg campus including without limitation all consequential damages, whether or not resulting from the negligence of VT or its agents.

### **SPECTRUM-SHARC STUDENT COGNITIVE RADIO DESIGN CHALLENGE VIRGINIA TECH IMAGE/VIDEO RELEASE FORM**

The 2018 Spectrum-ShaRC Student Cognitive Radio Design Challenge at Virginia Tech is seeking permission to use an image/video of you. The image/video may be used on the Spectrum ShaRC Student Cognitive Radio Design Challenge website, promotional brochures, or publications to promote the Spectrum-ShaRC Challenge. The Spectrum-ShaRC Student Cognitive Radio Design Challenge @ Virginia Tech will not use the image/video in a way that damages the reputation of the subject and will not use the image/video for profit or resale. In addition, this authorization allows Virginia Tech to publish your team names, team members names, team photos, and advisors names, projects/codes & presentations to the student design contest website, and any/all may be used in promotional materials, both in print and online, to publicize and promote future contests/activities.

## **ADULT RELEASE AUTHORIZATION (18+ YEARS)**

I hereby give the Spectrum-ShaRC Student Cognitive Radio Design Challenge at Virginia Tech permission to publish in print, electronic, or video format my likeness or image, my projects/codes/presentations for purposes of promoting the contest. I release all claims against the Spectrum-ShaRC Student Cognitive Radio Design Challenge at Virginia Tech and Virginia Tech with respect to copyright ownership and publication including any claim for compensation related to the use of the materials. I hereby hold the Virginia Tech and Spectrum-ShaRC Student Cognitive Radio Design Challenge at Virginia Tech, harmless from any claims, demands, or causes of action I or other persons acting on my behalf may have by reason of this authorization. In addition, I waive the right to inspect or approve any finished product, including written or electronic copy wherein my likeness appears.

