CHAMPIONS AWARD SCORING RUBRIC

JUDGES NAME			**DATE**		
Content	**Above Expectations (5 pts)**	**Meets Expectations (4 pts)**	**Progressing (2 – 3 pts)**	**Needs Improvement (0 – 1 pt)**	**Score**
Challenge Field Scores	>75% of all Division teams	>70% of all Division teams	>50% of all Division teams	<50% of all Division teams	
Team Showcase Video presentation	>100% of all Division teams score in RDL Showcase	>95% of all Division teams score in RDL Showcase	>90% of all Division teams score in RDL Showcase	>85% of all Division teams score in RDL Showcase	
Engineering	>100% of all Division teams score in Engineering Award	>75% of all Division teams score in Engineering Award	>50% of all Division teams score in Engineering Award	>25% of all Division teams score in Engineering Award	
Community Outreach	>100% of all Division teams score in Professors Award	>75% of all Division teams score in Professors Award	>50% of all Division teams score in Professors Award	>25% of all Division teams score in Professors Award	
Competition Professionalism	<No occurrence of unsportsmanship or poor behavior observed during competition				
Collaborative Spirit	Extreme team collaboration witnessed by judges and input from RDL staff and officials	Great team collaboration witnessed by judges and input from RDL staff and officials	Good team collaboration witnessed by judges and input from RDL staff and officials	Minimal or no team collaboration witnessed by judges and input from RDL staff and officials	
				TOTAL SCORE	
Notes:					

PROFESSORS AWARD SCORING RUBRIC

JUDGES NAME			**DATE**		

Content	**Above Expectations (5 pts)**	**Meets Expectations (4 pts)**	**Progressing (2 – 3 pts)**	**Needs Improvement (0 – 1 pt)**	**Score**
Team Essay	Submitted; < 500 words with zero grammatical errors and appropriate content with clarity of community outreach and the purpose of STEM in all communities	Submitted; < 500 words with few grammatical errors and appropriate content with clarity of community outreach and the purpose of STEM in all communities	Submitted; > 250 words with several grammatical errors and appropriate content with some clarity of community outreach and the purpose of STEM in all communities	Submitted; > 150 words with several grammatical errors and appropriate content with minimal clarity of community outreach and the purpose of STEM in all communities II Division teams	

Team Showcase Video presentation	Submitted, a five (5) to seven (7) minute video with **excellent** production quality and acceptable content. In this video, teams are expected to showcase the robot, drone, and supplemental devices (such as grippers, hooks, etc.). Apart from robotics and technical applications, teams are also be expected to feature additional aspects of the RDL season such as team funding, fundraising, community outreach, team & project management, and any additional information teams feel necessary to describe the scope of accomplishments for the competition season. As an option, teams are allowed to include technical documents (less than 10 pages), reports, posters, and published materials to aid the RDL Team Showcase in support of the team's video presentation to the judging panel.	Submitted, a five (5) to seven (7) minute video with **good** production quality and acceptable content. In this video, teams are expected to showcase the robot, drone, and supplemental devices (such as grippers, hooks, etc.). Apart from robotics and technical applications, teams are also be expected to feature additional aspects of the RDL season such as team funding, fundraising, community outreach, team & project management, and any additional information teams feel necessary to describe the scope of accomplishments for the competition season. As an option, teams are allowed to include technical documents (less than 10 pages), reports, posters, and published materials to aid the RDL Team Showcase in support of the team's video presentation to the judging panel.	Submitted, a five (5) to seven (7) minute video with **satisfactory** production quality and acceptable content. In this video, teams are expected to showcase the robot, drone, and supplemental devices (such as grippers, hooks, etc.). Apart from robotics and technical applications, teams are also be expected to feature additional aspects of the RDL season such as team funding, fundraising, community outreach, team & project management, and any additional information teams feel necessary to describe the scope of accomplishments for the competition season. As an option, teams are allowed to include technical documents (less than 10 pages), reports, posters, and published materials to aid the RDL Team Showcase in support of the team's video presentation to the judging panel.	Submitted, a five (5) to seven (7) minute video with low production quality and lacks acceptable content requirements. In this video, teams are expected to showcase the robot, drone, and supplemental devices (such as grippers, hooks, etc.). Apart from robotics and technical applications, teams are also be expected to feature additional aspects of the RDL season such as team funding, fundraising, community outreach, team & project management, and any additional information teams feel necessary to describe the scope of accomplishments for the competition season. As an option, teams are allowed to include technical documents (less than 10 pages), reports, posters, and published materials to aid the RDL Team Showcase in support of the team's video presentation to the judging panel.	

Letters of Endorsement	Submitted; Verified evidence of endorsements from several community / government leaders, educators, industry, etc. on official letter head and signature	Submitted; Verified evidence of endorsements from two or more community / government leaders, educators, industry, etc. on official letter head and signature	Submitted; Limited evidence of endorsements from a minimum of one community / government leaders, educators, industry, etc. on official letter head and signature	No evidence of endorsements from any community / government leaders, educators, industry, etc. on official letter head and signature	
STEM Community Outreach	Team participated in 3 or more STEM events to include robotics competitions, workshops, public presentations and junior team mentoring – Must provide supporting evidence (endorsements on letter heads, video interview, news report, etc.)	Team participated in at least 2 STEM events to include robotics competitions, workshops, public presentations and junior mentoring – Must provide supporting evidence (endorsements on letter heads, video interview, news report, etc.)	Team participated in at least 1 STEM event that might include robotics competitions, workshops, public presentations and junior mentoring – Must provide supporting evidence	Team did not participate in any STEM events that include robotics competitions, workshops, public presentations and junior mentoring – Must provide supporting evidence	
Media	Submitted; Verified evidence of news articles both written and broadcast	Submitted; Verified evidence of news articles either written and / or broadcast	Submitted; Evidence of at least one news article	No evidence of at least one media article	

Collaborative Spirit	Extreme team collaboration witnessed by judges and input from RDL staff and officials	Great team collaboration witnessed by judges and input from RDL staff and officials	Good team collaboration witnessed by judges and input from RDL staff and officials	Minimal or no team collaboration witnessed by judges and input from RDL staff and officials	
				TOTAL SCORE	
Notes:					

ENGINEERING AWARD SCORING RUBRIC

JUDGES NAME			**DATE**		

Content Engineering Notebook	**Above Expectations (5 pts)**	**Meets Expectations (4 pts)**	**Progressing (2 – 3 pts)**	**Needs Improvement (0 – 1 pt)**	**Score**
Do the design, and build of the robots / drones identify the needs and the constraints of the RDL Season Challenge?	Both robot and drone designs meet the challenges of the RDL field with thoughtful consideration for how the robot / drone interact with the field elements to achieve consistent scoring	The robot and / or drone designs meets the challenges of the RDL field with adequate solutions for how the robot / drone achieve success scoring elements	The robot and / or drone designs have mixed results when attempting retrieval of scoring elements	The robot and / or drone designs have minimal success and failed results when attempting retrieval of scoring elements	
Do the designs, builds, and technical documentation of the robots / drones clearly indicate the proper amount of research was conducted for the RDL Season Challenge?	Both robot and drone design, builds, and technical documentation demonstrate that exceptional and diligent engineering research was thoroughly utilized in preparation for the RDL challenge	The robot and / or drone designs, builds, and technical documentation provide adequate evidence that engineering research was utilized in preparation for the RDL challenge	The robot and / or drone designs, builds, and technical documentation somewhat provides adequate evidence that proper engineering research standards were researched in preparation for the RDL challenge	No evidence of designs, builds, or technical documentation, principles or standards were researched in preparation for the RDL challenge	
Do the designs, builds, and technical documentation of the robots / drones clearly demonstrate that a design plan was followed during the RDL Season Challenge?	Both robot and drone design, builds, and technical documentation demonstrate that exceptional and diligent planning was thoroughly utilized in preparation for the RDL challenge	The robot and / or drone designs, builds, and technical documentation provide adequate evidence that adequate planning was utilized in preparation for the RDL challenge	The robot and / or drone designs, builds, and technical documentation somewhat provides evidence that adequate planning was utilized in preparation for the RDL challenge	No evidence of designs, builds, or technical documentation, as it pertains to planning where utilized in preparation for the RDL challenge	

Do the designs, builds, and technical documentation of the robots / drones clearly demonstrate that a prototype was developed and utilized during the RDL Season Challenge?	Both robot and drone design, builds, and technical documentation demonstrate that one or more prototypes were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that at least one prototype was developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that a prototype design was conceptualized but may or may not have been developed in preparation for the RDL challenge	No evidence of prototyping in the designs, builds, or technical documentation exists in preparation for the RDL challenge	
Do the designs, builds, and technical documentation of the robots / drones clearly demonstrate that improvement and redesign actions were taken during the RDL Season Challenge?	Both robot and drone design, builds, and technical documentation demonstrate that multiple improvement and redesign actions were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that at least one or more improvement and redesign actions were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that a minimum of one improvement and redesign actions were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that no improvement or redesign actions were developed in preparation for the RDL challenge	
Do the designs, builds, and technical documentation of the robots / drones clearly demonstrate effective coding and programming actions were taken during the RDL Season Challenge?	Both robot and drone design, builds, and technical documentation demonstrate that advanced coding and programming actions were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that coding and programming actions were developed in preparation for the RDL challenge	Both robot and drone design, builds, and technical documentation demonstrate that coding and programming actions (with and / or without errors) were developed in preparation for the RDL challenge	Minimal or no team collaboration witnessed by judges and input from RDL staff and "Both robot and drone design, builds, and technical documentation demonstrate that little or no coding and programming actions were developed in preparation for the RDL challenge"officials	
				TOTAL SCORE	
Notes:					

ROOKIE AWARD SCORING RUBRIC

JUDGES NAME			**DATE**		

Content	**Above Expectations (5 pts)**	**Meets Expectations (4 pts)**	**Progressing (2 – 3 pts)**	**Needs Improvement (0 – 1 pt)**	**Score**
Engineering	Both robot and drone designs meet the challenges of the RDL field with thoughtful consideration for how the robot / drone interact with the field elements to achieve consistent scoring	The robot and / or drone designs meets the challenges of the RDL field with adequate solutions for how the robot / drone achieve success scoring elements	The robot and / or drone designs have mixed results when attempting retrieval of scoring elements	The robot and / or drone designs have minimal success and failed results when attempting retrieval of scoring elements	
Team Showcase Presentation - Video	The team flawlessly articulated the teams mission purpose, robot and drone design rationale, community STEM engagement, and provided strong evidence of effective problem solving – ALL TEAM MEMBERS CONTRIBUTED	The team articulated the teams mission purpose, robot and drone design rationale, community STEM engagement, and provided good evidence of effective problem solving – Most of the team members contributed	The team provided partial evidence of mission purpose, robot and drone design rationale, and community engagement for the purpose of promoting STEM education – Some of the team members contributed	The team provided minimal or no evidence of mission purpose, robot and drone design rationale, and community engagement for the purpose of promoting STEM education – Two or less team members contributed	
Challenge Field Scores	>75% of all Division teams	>70% of all Division teams	>65% of all Division teams	>50% of all Division teams	
Competition Professionalism	<No occurrence of unsportsmanship or poor behavior observed during competition				

Collaborative Spirit	Extreme team collaboration witnessed by judges and input from RDL staff and officials	Great team collaboration witnessed by judges and input from RDL staff and officials	Good team collaboration witnessed by judges and input from RDL staff and officials	Minimal or no team collaboration witnessed by judges and input from RDL staff and officials	
				TOTAL SCORE	
Notes:					