

Celebrating 30 years of BEST Robotics

# 2022 Team Handbook



#### Saturday, December 3rd

8:30am – 12:00pm	<b>Registration Check-in,</b> Beard Eaves Memorial Coliseum Teams must check-in prior to Compliance check-in
8:30am – 12:00pm	Compliance Check-In, Pit
9:00am – 5:00pm	Pit Open, Coliseum Main Floor
9:00am – 5:00pm	Team Exhibit Set-Up, Coliseum 3rd Floor Concourse
9:00am – 11:20pm	Marketing Presentations, ACLC Building
9:30am – 1:00pm	Driving Practice, Coliseum Main Floor
11:30am – 12:45pm	Women in STEM Luncheon, ACLC Building, Room 002
1:30pm – 2:00pm	<b>Driver's Meeting</b> , Coliseum Stands Required of ALL who will be in the Pit during the competition
2:30pm – 2:45pm	Parade of Teams
3:00pm – 5:30pm	Seeding Matches, Coliseum Main Floor Team Video Competition
3:30pm	Coaches Meeting, Scholarship Room, Coliseum 1st Floor
5:45pm	Pit Closes
6:00pm	Beard-Eaves-Memorial Coliseum Closes

# Sunday, December 4<sup>th</sup>

8:30am	Coliseum Open
8:30am – 4:00pm	Registration Open, Main Entrance
8:30am	Pit Open, Coliseum Main Floor
9:00am – 2:00pm	Special Awards Judging, Everywhere
9:15am – 9:30am	2022 South's BEST Opening and Official Welcome
9:30am – 11:45am	Seeding Matches (cont.)
9:30am – 2:00pm	Team Exhibit & Interview Judging, Coliseum 3rd Floor Concourse
11:45am – 12:45pm	Lunch Break Pit and Coliseum Main Floor closed during lunch
12:45pm – 1:00pm	<b>BEST Teachers and Judges Recognition,</b> Coliseum Floor All teachers assemble at the playing field "A" area All judges assemble at playing field "B" area
1:00pm – 1:30pm	Halftime Report Recognitions and announcements
1:30pm – 1:45pm	Wildcard Match (8 teams) Video Competition Award Announcement
2:00pm – 2:30pm	Semi-final Round (16 teams)
2:30pm	Team Exhibits may be dismantled
2:45pm – 3:00pm	Championship Round (4 teams)
3:00pm – 3:45pm	Awards Ceremony & Championship Team Photos
4:00pm	2022 South's BEST Concludes

We're mindful that many teams need to get on the road as soon as possible. We'll do everything possible to stick to this schedule, but sometimes "stuff" happens.



# **Teacher's To-Do List**

We recommend you follow this guide of tasks that need to be completed before and at South's BEST. Note that all times listed in this handbook are in the **Central Time Zone**. In addition, South's BEST staff will send out regular updates to the e-mail address provided on the team information form. These updates will contain critical information including scheduling changes and other event logistics. The team is responsible for maintaining a record of these updates and adhering to any changes that occur.

#### STEP #1 – Team Information Form



Submit your 2022 Team Information Form by 5:00pm (Central Time) on the Monday immediately following your hub competition using the following link or the provided QR code: <u>https://auburn.qualtrics.com/jfe/form/SV\_5mrcMTO2TuHVU1M</u>.

 We will use the Remind app to share information to teams. Please register at <u>https://www.remind.com/join/southsb</u>

#### STEP #2 – Hotel Arrangements

To reserve hotel rooms, visit the Hotel reservation sheet in the South's BEST Championship Handbook. As much as possible, **please book hotels on this list so we can the impact of South's BEST in our area.** Cindy Pugh from the Auburn Opelika Tourism Bureau will be available to answer any questions you may have regarding the Auburn/Opelika area. Cindy works closely with our local hotels and understands the variety of amenities and price ranges available, thus making her a valuable resource for locating lodging that works for you and your group. For booking assistance, please contact Cindy directly at 334-704-0114 or by e-mail at <u>cindy@aotourism.com</u>.

#### STEP #3 – Engineering Notebook

All teams **must** submit an Engineering Notebook to compete at South's BEST. The **Engineering Notebook should be received five days following your local hub competition**. Team notebooks must be submitted electronically via BEST Registry (<u>https://registry.bestrobotics.org/</u>). Files must be in PDF format (saved as one single document – not multiple) with a file name of "Team# - Team Name.pdf" or "555 - South High School.pdf."

Please upload your team's engineering notebook submission by using the registry file upload feature. When uploading the file, select "Engineering Notebook" for the "What is the file for?" field. Be sure to check the appropriate box in the "Uploaded Files" table so that the file is visible to South's BEST.

#### Step #4 – Team Demographics/Minors on Campus Parental Waiver Submission

All teams must submit a copy of the Team Demographics Form and an Auburn University Minors on Campus Consent Form\* for all team members planning to attend South's BEST. Forms must be submitted by Friday, November 18th.



#### Demographic form can be found here:

https://auburn.qualtrics.com/jfe/form/SV\_6EbcsYrMWPEZl0G

#### Minors on Campus forms can be found here:

https://auburn.gualtrics.com/jfe/form/SV byC0Fd0LIHrjS8S



Forms must be signed (by a parent/guardian) and received by the deadlines stated above. The Auburn University Minors on Campus Consent Form is required for participation in South's BEST! This form is required to adhere to Auburn University's Minors on Campus policy.

If you have any questions or issues, please contact Dr. Jessica Gilpin (jag0038@auburn.edu).

#### STEP #5 – Women in STEM Luncheon



Complete the South's BEST Women in STEM Luncheon Registration found at the QR code to the left or <u>https://aub.ie/Women\_In\_STEM\_Luncheon\_BEST2022</u>. Submit by Friday, November 18<sup>th</sup>. Seating is limited and available on a first-come, first-served basis. Each team may submit names for 10 participants (including adult chaperones) until all spaces fill. Once we have confirmed your school's seats at the luncheon, teams

may substitute students into those slots without notifying the South's BEST staff. The 2022 South's BEST Women in STEM Luncheon will be held in Room 002 in the Academic Classroom and Laboratory Complex (ACLC Building) on Saturday, December 3<sup>rd</sup> from 11:30am to 12:45pm.

#### STEP #6 – Pre-order South's BEST Championship T-shirts

Collect t-shirt pre-orders from your students. Complete the South's BEST Championship T-shirt Pre-Order form in this Handbook and submit form and payment by Friday, November 11<sup>th</sup> using payment information provided on the form.

#### STEP #7 – Video Competition Submission

To compete in the Video Competition, follow the instructions on the Video Competition Requirements document in the Championship handbook. Submit a link to your video at the following link no later than 5:00pm on Friday, November 11<sup>th</sup>: <u>https://auburn.qualtrics.com/jfe/form/SV\_9MpkfVut57PHJ3g</u>

#### STEP #8 – Marketing Presentation Time Selection (BEST Award Teams Only)

Marketing Presentations will be held on Saturday, December 3 (9:00am – 11:30am). You will be able to schedule your marketing presentation time slot via the BEST Registry (<u>https://registry.bestrobotics.org/</u>). Presentation time slots should be reserved no later than November 11<sup>th</sup> at 11:59 p.m. CST.

#### STEP #9 – Accommodations for Students with Disabilities

If a hearing interpreter is traveling with your party and needs access to areas of the competition site not open to the public, we need to know prior to your arrival to ensure all South's BEST staff members are informed. If you have a student who requires any other accommodations that you believe we need to be aware of, let Jessica know (jag0038@auburn.edu).

#### STEP #10 – Student Survey



Every participating member of your team **must** complete the Student Survey available at the following link: <u>https://auburn.qualtrics.com/jfe/form/SV\_6hhRv4ggUb6uS5o</u>.

We will not distribute your registration packet or pit packet until each of your attending students have completed the survey.

#### STEP #11 – Information for Adults

Make copies of key sections of this handbook for other adults in the group. Pay particular attention to the information in the following documents:

- Compliance Checklist
- General Information
- Pit Protocol
- Parking Maps

#### STEP #12 – Registration Check-In

There will be one registration/check-in time available to teams.

Saturday, December 3rd, 8:30am – 12:00pm (Beard-Eaves-Memorial Coliseum, 3<sup>rd</sup> floor concourse).

The primary/lead teacher should check-in at the above registration session to receive the competition information packet. Your team must check in before participating in any scheduled events.



## SOUTH'S BEST ROBOTICS | DECEMBER 2-4, 2022



HAMPTON INN & SUITES - OPELIKA RATE: \$109/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 745-4311



HOLIDAY INN EXPRESS & SUITES AUBURN

RATE: \$189/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 502-1090



CANDLEWOOD SUITES RATE: \$179/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 521-7494



HAMPTON INN - AUBURN

RATE: \$139/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 821-4111

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HILTON GARDEN INN RATE: \$119/night DEADLINE: Book by November 20, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 502-3500



STAYBRIDGE SUITES AUBURN RATE: \$119/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 591-8300



#### AUBURN MARRIOTT OPELIKA RESORT & SPA AT GRAND NATIONAL

RATE: \$127/night DEADLINE: Book by November 4, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 741-9292



FAIRFIELD INN & SUITES AUBURN/OPELIKA

RATE: \$109/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 742-2590



**MICROTEL INN & SUITES AT TIGER TOWN** 

RATE: \$94/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 745-0415



#### LA QUINTA INN & SUITES OPELIKA/AUBURN

RATE: \$119/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 748-9000

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#### **STAYBRIDGE SUITES AUBURN**

RATE: \$119/night DEADLINE: Book by November 18, 2022 to receive rate DETAILS: <u>Click to Book</u> PHONE: (334) 591-8300

#### **SHOW YOUR BADGE**

While you're here, enjoy some of our favorite local restaurants, shops, and attractions - and here's a little discount to sweeten your stay! Simply *Show Your Badge (the digital coupon)* to participating businesses and receive the discount.

**Click here for discounts!** 

#### **OTHER AREA INFORMATION**

- Group/Team Friendly Dining Options
- Explore other events going on in the area!
- Fun activities for the whole team!
- Guides & Maps

#### Show Your Badge



Welcome to Auburn-Opelika! While you're here, enjoy some of our favorite local restaurants, shops, and attractions. Simply **Show Your Badge** to participating businesses and receive the discount.

For a full list of discounts, scan the QR code with your smartphone camera or visit **aotourism.com/show-your-badge.** 

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# THINGS TO DO IN AUBURN-OPELIKA



#### Rock 'N Roll Pinball 815 S Railroad Avenue, Opelika

Modern, classic, and vintage pins, two multicade FREE PLAY video arcades with over 500 games, snacks, beer, wine, TV lounge, and live music on Fridays at 8pm.



# **Jule Collins Smith Museum of Fine Art**

#### 901 South College Street, Auburn

The Jule Collins Smith Museum of Fine Art at Auburn University consists of changing exhibition galleries and Dale Chihuly's Amber Luster Chandelier, in a striking modernist building set within extensive grounds. A pillar of the Southern gateway cultural arts district, the museum offers impactful opportunities to engage with a wide-ranging visual and decorative art collection spanning centuries, genres, and materials.



# Surge Trampoline Park

#### 2506 Pepperell Pkwy, Opelika

Surge Trampoline Park in Opelika is a cutting-edge entertainment, fitness, and sports facility unlike anything you have ever experienced. With over 45,000 square feet of high-flying fun, we have created a venue for active social outings, intense workouts, and awesome birthday parties. All ages are welcome.



# CyberZone

#### 107 N 9th Street, Opelika

Battle it out in our pulse-pounding, custom themed laser tag, immerse yourself in a whole new virtual reality, and challenge yourself or a friend in our state-of-the-art arcades. With such a wide variety of experiences to explore, we're bound to have something to keep you entertained for hours!



# The World's Best Lemonade

#### Toomer's Drugs | 100 N College Street, Auburn

When Toomer's lemonade ranked number one in Esquire magazine's "162 Reasons It's Good To Be An American," it was only about 105 years after the rest of us already knew. Handmade to order, this tart and tangy concoction is the hallmark of Toomer's Drugstore, a beloved Auburn icon and the only business that has occupied this historic corner since 1896.

# Family-friendly Axe Throwing

## Blade & Barrel Axe Co. | 1188 Opelika Road, Auburn

Blade & Barrel is an axe-throwing entertainment venue located in the Midtown entertainment district. It has 9 interactive Axe throwing lanes. Family-friendly fun, children age 8 and above can participate.





# **Chewacla State Park**

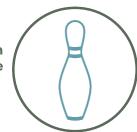
124 Shell Toomer Parkway, Auburn

Chewacla State Park's 696 scenic acres offer plenty of rest, relaxation, and recreation, just a short drive from Auburn University. Facilities include a 26-acre lake, swimming area, playground, a modern campground, picnic areas with tables, grills, and shelters, cabins, hiking, and mountain biking trails.

# Eat + Play + Roll

#### 750 E Glenn Avenue, Auburn

How do we roll at GoodTimes? Watching our favorite bands on video walls. Chillin' out on plush loungers. Feasting on over-sized eats with one hand and throwing strikes with the other. Bowling at GoodTimes isn't the same old game: it's an immersive lane-side experience, full arcade, and escape room extravaganza that transforms America's favorite recreational pastime into something worthy of the 21st century!





# **Kreher Preserve & Nature Center**

#### 3100 AL Hwy 147 N, Auburn

One hundred twenty acres of birds, walking trails, plants, and wildlife! Weekly programs for kids and families include hands-on activities with nature, exploration, and exercise. Enjoy the natural playground or a self-guided walk along the marked trails through natural habitats of over 80 species of birds and critters.

# **O Town Ice Cream**

#### 700 2nd Avenue, Opelika

The Opelika story being told through Ice Cream! O Town offers 30+ flavors of decadent ice cream. Try the Chunky Monkey Park, Spring Villa Vanilla, Summer Swing Strawberry, Railroad Tracks and more. Described as "A sweet treat destination for the authentic Opelikan" by the Opelika-Auburn News. O Town also serves lunch. Enjoy homemade soup and sandwiches.



# Find more 000/things to do at AOTourism.com or @auburnopelika.



Scan the QR code with your smartphone to see our Show Your Badge program which gets you great discounts at area restaurants, retailers, and attractions! You can also visit aotourism.com/show-your-badge.





# 2022 Championship T-Shirt Pre-Order Form

T-shirts are \$17.00 pre-order (sizes S-XL), or \$20 on-site. T-shirts will be a tultex in indigo blue. Payment for pre-order shirts must be by credit card, check, or purchase order no later than Friday, November 11<sup>th</sup>. T-shirts can be picked up at the Registration table. DO NOT SEND THIS FORM HOME WITH STUDENTS! Only ONE pre-order form from each participating school is allowed.

Team #: \_\_\_\_\_ School: \_\_\_\_\_ Primary teacher name: Primary teacher email: \_\_\_\_\_\_Primary teacher phone:\_\_\_\_\_

Please fill out form and scan and email form to Kristen Jackson at kristenjackson@auburn.edu.

Size	Quantity	Cost	Total Cost
S		\$17.00	
М		\$17.00	
L		\$17.00	
XL		\$17.00	
2XL		\$17.00	
3XL		\$17.00	
Total			

#### **Select Payment Method:**

#### Credit Card

Please visit aub.ie/STEMstore

#### Check

Auburn University Attn: Kristen Jackson, COSAM Outreach 131 Sciences Center Classrooms Building Auburn University, AL 36849

Questions can be directed to Kristen Jackson at kristenjackson@auburn.edu



2022 Awards and Judging Logistics



#### Awards

In addition to the Standard Required Hub Level Awards outlined in the BEST Competition Rules document (Section 4 – Awards & Judging, pages 57-62; Section 5 – BEST Award Components, pages 63-71; Section 7 – Standard Awards, pages 74-76), the awards below will be given at the South's BEST competition. Unless otherwise noted, all teams are eligible for the award(s) with 1st - 3rd place plaques for each.

#### **Engineering Notebook Award**

Awarded to the team that scores the highest in the Engineering Notebook category.

#### Neptune Technology Group Most Elegant Robot

Awarded to the team whose machine demonstrates the best design and execution of the game...the machine that makes you say "Wow!"

#### **Most Photogenic Robot**

Awarded to the team whose machine is the most eye pleasing.

#### igus TOP GUN Award (First Place Only)

Awarded to the team who scores the most points in a single match.

#### **T-Wear Design Award**

Awarded for the most original game-specific team t-shirt or team-wear design. Team-wear entries should be items worn by all team members and supporters (button down shirts, golf shirt, t-shirts, etc.), not a one-of-a-kind item designed specifically for judging consideration. In addition, teams should submit a brief explanation of their design (no longer than one page) with their shirt. The explanation sheet should clearly identify the team # and school name and be attached to the shirt by pin, clothespin, paperclip, or some similar device. Entries should be submitted to the Registration/Information Desk on the 3<sup>rd</sup> floor concourse by noon on Saturday, December 3rd to be considered for judging. Items may be picked up at the Registration Desk on Sunday after 1:00pm.

#### Video Competition Award

To compete in the Video Competition, follow the instructions on the Video Competition Requirements document in the Championship handbook. Submit a url link to your video at the following link no later than 5:00pm on Friday, November 11<sup>th</sup>: <u>https://auburn.qualtrics.com/jfe/form/SV\_9MpkfVut57PHJ3g</u>

# Hyundai Motor Manufacturing Alabama Team Exhibit Design & Construction Award (BEST Award teams only)

Awarded to teams with the most creative and innovative Exhibit design.

#### Spirit and Sportsmanship (BEST Award teams only)

Awarded to the team that scores the highest on the Spirit and Sportsmanship category.

#### Team Exhibit and Interview Award (BEST Award teams only)

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Awarded to the team that scores the highest on the Team Exhibit and Interview category.

#### Marketing Presentation Award (BEST Award teams only)

Awarded to the team that scores the highest on the Marketing Presentation category.

# \*Note that we will not be hosting a Mascot dance-off competition this year and will not be recognizing the Best Mascot with an award as we have done in the past. However, teams are welcome to have mascots in attendance.

\*Note that we will not be judging team websites this year.

#### Team Demographics/Minors on Campus Parental Waiver Submission

All teams must submit a copy of the Team Demographics Form and an Auburn University Minors on Campus Consent Form\* for all team members planning to attend South's BEST. Forms must be submitted by Friday, November 18th. All teams must submit a copy of the Team Demographics Form and an Auburn University Minors on Campus Consent Form\* for all team members planning to attend South's BEST. Forms must be submitted by Friday, November 18th.



#### Demographic form can be found here:

https://auburn.qualtrics.com/jfe/form/SV\_6EbcsYrMWPEZI0G

#### Minors on Campus forms can be found here:

https://auburn.gualtrics.com/ife/form/SV byC0Fd0LIHrjS8S



Forms must be signed (by a parent/guardian) and received by the deadlines stated above. The Auburn University Minors on Campus Consent Form is required for participation in South's BEST! This form is required to adhere to Auburn University's Minors on Campus policy. If you have any questions or issues, please contact Dr. Jessica Gilpin (jag0038@auburn.edu).

\* The Auburn University Minors on Campus Consent Form is required for participation in South's BEST. This form is required to adhere to Auburn University's Minors on Campus policy.

#### **BEST Award Requirements and Logistics**

#### Hub vs. Championship Judging

Teams chosen to participate in the BEST Award recognize that inclusiveness, diversity of participation, exposure to and use of the engineering process, sportsmanship, teamwork, creativity, positive attitude and enthusiasm, and school and community involvement play significant roles in a team's competitive experience and contribute to student success in the competition beyond winning an award.

In accordance with the BEST philosophy, materials submitted by teams must be the work of students. The involvement of student peers in auxiliary roles to support a school's official BEST team with the documentation – i.e., journalists, photographers, and/or artists– is encouraged.

Due to space limitations, we will enforce a limit on the number of BEST Award teams that are eligible to compete at South's BEST. Teams that advance due to their BEST Award placing will be expected to compete in the BEST Award at South's.

All teams competing for the BEST Award must participate in all categories and will be judged using the following point system:

Point Value
30 points
25 points
20 points
10 points
15 points
-

Total: 100 points

#### **Engineering Notebook (30 points)**

ALL participating teams (both BEST Award and non-BEST Award) are required to submit an Engineering Notebook within 5 days after their hub competition in order to compete at South's BEST. The Engineering Notebook should be received by 5PM on the date below.

Team notebooks must be submitted electronically via the BEST National Registry (<u>https://registry.bestrobotics.org/</u>). The engineering notebook is listed under "Tasks & Deliverables" on your team workflow. Files must be in PDF format (saved as one single document – not multiple) with a file name of "Team# - Team Name.pdf" or "555 - South High School.pdf."

Please upload your team's engineering notebook submission by using the registry file upload feature. When uploading the file, select "Engineering Notebook" for the "What is the file for?" field. Be sure to check the appropriate box in the "Uploaded Files" table so that the file is visible to South's BEST.

For additional information regarding Engineering Notebook requirements, please reference Section 5.1 – *Judged Components*, pages 73-74 of the 2022 BEST Robotics Competition Rules.

#### **Marketing Presentation (25 points)**

Marketing Presentations will be held on Saturday, December 3 (9:00am - 11:30am). You will be able to schedule your marketing presentation time slot via the BEST Registry

(<u>https://registry.bestrobotics.org/</u>). Presentation time slots should be reserved no later than November 11<sup>th</sup> at 11:59 p.m. CST.

Teams at South's BEST will have a total of 15 minutes to complete their presentation, with up to 5 minutes of additional time for Q and A with the judges.

For additional information regarding Marketing Presentations, please reference Section 5.2 – *BEST Award Components*, pages 66 - 68 of the 2022 BEST Robotics Competition Rules.

2022\_BEST\_Competiti on\_Rules\_v1.0.pdf

#### Team Exhibit and Interviews (20 points)

Team Exhibits will be located on the 3rd floor concourse of the Beard-Eaves-Memorial Coliseum. Exhibits are restricted to a size of 8 feet wide X 8 feet tall X 8 feet deep. The South's BEST staff will assign team locations for Exhibit placement. Teams will be directed to their assigned location upon registration.

Team Exhibit set-up can begin after team check-in at the Registration desk in the Beard-Eaves-Memorial Coliseum. Exhibits should be completely set up by 5:00pm on Saturday, December 3. Judging will begin at 9:30am on Sunday, December 4. Teams will be visited by 3 to 5 judges. Please wait until the official announcement on Sunday afternoon before any breakdown begins. During breakdown, students should remove ALL portions of the Exhibits. A large dumpster will be available outside the south entrance of the building to discard unwanted items.

**Tables will not be provided at South's BEST.** Teams wishing to have a table in their booth should supply their own. Each team should bring one extension cord and one power strip IF the display requires electricity.

Teams should not leave valuable equipment in the Exhibit booth overnight.

Fog machines and strobe lighting are NOT allowed in booths. Heat generating devices are NOT allowed in booths (e.g., blow dryers, soldering irons, utility lamps, 3D printers, etc.). Standard string/Christmas lights are fine. Candy and other food or drink items are NOT permitted at Team Exhibits as complimentary handouts.

Live animals should not be part of the exhibit and may NOT be distributed as part of a team giveaways. Stickers will NOT be allowed to be distributed as part of team giveaways.

For additional information regarding your Team Exhibit and Judges Interview, please reference Section 5.3 – *BEST Award Components*, pages 68-71 of the 2022 BEST Robotics Competition Rules.

#### Spirit and Sportsmanship (10 points)

Judges will evaluate this category on Game Weekend.

Judges will observe the spirit promoted by the team during the head-to-head competition matches as well as the team's conduct throughout the day in the seating area, team exhibit area, game floor, and pit area.

Judges may also consider the teams' conduct at the entire competition (Saturday, Saturday evening, hotel locations, etc.).

*No tape of any kind can be used on any Beard-Eaves-Memorial Coliseum surface* to secure posters, banners, spirit signage, etc. Teams should plan to use rope, cable ties, string, etc. when securing spirit stick items to Coliseum surfaces. Tape may be used inside Team Exhibits on surfaces provided by the team.

The following noise-makers are banned at the event: air-horns, whistles (and similar high frequency items), bass drums (and similar low frequency items), amplified sound or amplified instruments. The Head Judge has the right to ban any noise-makers that are deemed to potentially cause hearing damage by those in attendance at South's BEST.

Instruments, including bass drums, will only be allowed during specified spirit breaks and should not be played unless invited by the emcee.

Spirit Stick: To facilitate judging, each competing team may bring a "spirit stick" for identification in the seating area. Specifications include:

- School name and/or team number prominently displayed and visible by judges from a distance
- Pole constructed of PVC pipe or similar material (should not be pointed or sharp on either end)
- Maximum height of 8 feet
- Maximum of 5 spirit sticks per team

Spirit sticks are meant solely as a means of team identification by the judges during the competition. Please do not attach spirit sticks to the seating area.

Note that the Coliseum may not be well-lighted during the competition, so teams may wish to take this into account when designing their spirit stick. Making a team easier to identify makes for happy judges!

For additional information regarding Spirit and Sportsmanship, please reference Section 5.4 – *BEST Award Components*, pages 71-72 of the 2022 BEST Robotics Competition Rules.

#### **Robot Performance (15 Points)**

The fifth category, Robot Performance, will determine the final 15 points of teams' BEST Awardscore. These 15 points will be based on the total game points earned throughout the seedingCopyright © 2015 - 2022Page 6 of 8Awards & Judging Logistics 9/22/2022

phase of the competition (prior to the semi-final and championship rounds) according to the following scale:

Team finishes in top 20% of all teams competing	15 Points
Team finishes in top 40% of all teams competing	12 Points
Team finishes in top 60% of all teams competing	9 Points
Team finishes in top 80% of all teams competing	6 Points
Team finishes in top 100% of all teams competing	3 Points
Team is unable to score any points during the competition	0 Points

Up to 15 Robot Performance points will be included in BEST Award points.

#### Applying for the Simulink Design Award

The "BEST Simulink Design Award" sponsored by MathWorks is an award open to all teams participating in the competition. The award will be presented to one team in each of the 3 BEST championship regions (South's, Texas, Denver) that best applies Simulink in the programming of their robot based on the judging criteria and their robot's performance in the competition. Any team using MathWorks MATLAB/Simulink to design their software (i.e. robot program) is eligible. The entries must be submitted by November 18, 2022 for all regions.

For detailed information regarding this award, please see the following: Section 4.3 – *Simulink Design Award Guidelines* on pages 59-61 in the 2022 BEST Robotics Competition Rules.

#### **Additional Information**

#### Seating at South's BEST

Teams will be assigned a seating location upon check-in on Saturday morning. The amount of seating provided will be based on the attendance number provided on the Team Information Form. If that number changes significantly, please contact Jessica Gilpin (jag0038@auburn.edu) with updated numbers. Teams may NOT rope off seating areas due to fire code restrictions.

#### **Judging Procedure and Results**

A distinguished team of judges from both private and public sectors with technical and nontechnical expertise will evaluate teams with all judges serving on a rotation schedule.

Category scores will be the average of each judges' individual scores. Teams should know in advance that scores among many teams frequently differ by only fractions of a point.

Each team will be emailed a copy of its score sheets following the competition. Top rankings will be posted on the South's BEST website at <u>www.southsbest.org</u>.



# **Video Competition Specifications**

Teams competing in the Video Design Competition should prepare a 90 second video on this year's game theme. The purpose of the video contest is to enhance students' researching and fact-finding skills, and to educate them about the game theme. Students are encouraged to be creative in their entries, yet informative. The video can be staged as a short play, commercial, news broadcast, talk show, music video, documentary, etc.

#### Guidelines

- One submission per team
- Between 60 seconds 90 seconds in length
- Based on your current BEST team
- Incorporate this year's game theme
- Include school name, location, and name of participating hub
- Can include music, but no objectionable lyrics
- Content should not be objectionable and should be representative of the team and school
- Resolution should be at minimum1280 X 720 (720p)

#### **Judging Criteria**

- Captivating
- Creativity and innovation
- Clarity of audio
- Technical quality of video
- Editing (organization, flow)
- Best use of game theme
- Best combination of narration and video
- Best incorporation of team members

#### **Judging Process**

A team of judges will preview videos and choose the top videos to be shown during South's BEST. South's BEST teams will vote on the top three videos. The winners will be announced on Sunday.

#### **Video Submission Process**

Videos should be uploaded via the following link: <u>2022 Video Submission</u> by Friday, November 11<sup>th</sup>.

Judges' 2022 Engineering Notebook Score Sheet Purpose: To document the process used to design, build, and test the robot. (30 pts.)

				Possible	Points
	Research Paper (4 pts.)			Points	Awarded
Correlat	ion between the game and how the science/technology is being used at a comp			n's state or re	egion
8-10	In-depth discussion of how this year's game theme relates to industry in the				
4-7	General discussion of how this year's game theme relates to industry in this	s region			
1-3	General discussion of this year's game theme, but no ties to the region		0 No discuss	ion of game t	tneme.
Comm	ents:			10	
Any rela	ated information of the game theme such as history, famous inventor(s), major n	nilestone	es, etc.	1 1	
4-5	In-depth discussion of history and people related to this year's game theme				
2-3	General discussion of history and people related to this year's game theme				
1	Some mention of history or people.		0 No discuss	ion of related	d info
Comm	ents:			F	
				5	
Analysis	s of the game theme/problem & related technology's impact on the human exper	ience, o	ur needs, adaptations, and j	progress with	solutions.
4-5	In-depth historical account of the effects to human experience, needs, adapted and the second s	otation	and progress toward soluti	ons.	
2-3	Some discussion about the effects of the theme/problem/technology on hu	ıman ex	periences, needs, adaptati	ons or progre	ess.
1	Mentioned the effects to human experience, needs, adaptation or progress	s. 0	No mention of history/ef	fects to huma	anity.
Comm	ents:			5	
				5	
	ty in linking the game to appropriately related science content				
8-10	Very creative in linking this year's game theme to other science/technology	′.			
4-7	Attempted to link this year's game theme to other science/technology.				
1-3	Mentioned other science/technology.	0	No discussion of other sc	ience/techno	logy.
Comm	ents:			10	
Proper 1	formal writing - Proper use of grammar & composition throughout ; source cite	ations u	sed to gather information; v	within 2-5 pag	e limit
8-10	Very few grammar mistakes/misspellings, included citations, 2-5 pages.				
4-7	Noticeable grammar mistakes/misspellings or did not include citations, 2-5	pages.			
1-3	Many grammar mistakes/misspellings, no citations, or not within 2-5 pages		0 Incompreh	nensible or m	issing.
Comm	ents:			10	
				10	
	Design Process (17 pt	-			
	entation of the Engineering Design Process (Evidence that the engineering des		cess was effectively used )		
21-25	Process is explicitly identified; steps are obvious and explanation is thoroug	gh.			
16-20	Process is identified; steps are discernible and there is some explanation.	1			
11-15	Process is not identified; there is some discussion of a design process.	6-10	Discussion of process is r		
1-5	You can tell there was a design process of some sort.	0	No discernible design pro	ocess.	
Comm	ents:			25	
Brainsto	orming Approaches - How well organized and productive was the brainstorming	approad	h? How well was it docum	nented?	
21-25	Approach is explicitly identified, organization & productivity are obvious, ex				ons made.
16-20	Approach is identified, organization and productivity are discernible, there	-			
11-15	Approach is not identified, there is some discussion of brainstorming.	6-10	Discussion of approach is	s minimal.	
1-5	You can tell there were ideas generated.	0	No discernible brainstorr		
Comm	-		•		
				25	
Analytic	al evaluation of design alternatives - Use of analytical and mathematical skills ir	n decidir	ng upon and implementing c	lesign alterna	tives
21-25	Evaluation is explicitly identified, analytic/mathematical approach is obviou			ed.	
16-20	Evaluation is identified, analytic/mathematical approach is discernible, alte	rnative	-		
11-15	Evaluation is not identifiable, alternative designs are identified.	6-10	Discussion of alternative		nimal.
1-5	You can tell there were alternatives.	0	No discernible evaluation	າ.	
Comm	ents:			25	

#### Judges' 2022 Engineering Notebook Score Sheet

Offensiv	e and defensive evaluation - Analysis of gaming strategies and design ele	ments us	sed to	o achie	ve team	goals		
21-25	Evaluation of offensive/defensive strategies is explicitly identified, goal knowledge of the game.	s of this	tean	n are c	learly id	entified, dis	cussion shov	vs a deep
16-20	Evaluation is identified, goals are discernible, discussion shows a know	ledge of	the g	game.				
11-15	Evaluation is not identified, there is some notion of goals and game know	owledge	<u>)</u> .					
6-10	Discussion of goals and game knowledge are minimal.							
1-5	There is some slight mention of strategy.	0	No	discerr	nible eva	aluation.	-	
Сотте	ents:						25	
Softwar	e Development Process (Evidence that a software development proc							
21-25	Process is explicitly identified; steps are obvious and explanation is tho							xplained.
16-20	Process is identified; steps are discernible and there is some explanation	n. Some	e desi	ign me	thods a	re discussed		
11-15	There is some discussion of a development process or design methods	. 6-10					inimal detai	
1-5	You can tell there were some software design methods used.	0	N	lo disce	ernible s	software dev	elopment p	rocess
Comme	ents:						25	
	Evidence that safety training occurred and safe practices were followed to result in personal injury or damage to property							equipment
17-20	Clear evidence that safety training occurred, clear evidence that the te		fied s	afety p	procedu	res were fol	owed.	
13-16	Clear evidence of safety training, some evidence procedures were veri	fied.						
9-12	Some evidence of safety training, some procedures were verified.	5-8				-	g, no verifyin	g proc
1-4	Safety was mentioned; unsafe methods might be visible in photos.	0	No	mentic	on of sat	fety.	1	r
Comme		wingo	nhoto	o dori	und roa	iromonto to	20	
code/alg	Documentation - Team organization, meeting minutes/notes, CAD/other dra orithms, etc. that support the main document (max 40 pages)	•	-		•		st results,	
21-25	Clearly identifies at least 5 categories mentioned above; references ma	de from	n prin	nary do	ocumen	t.		
16-20	Items from at least 4 categories mentioned are included.							
11-15	Items from at least 3 categories above are included.	6-10				-	es above are	
1-5	Includes items from at least 1 category; but not identified.	0	No	items f	from list	ed categorie	es are includ	ed.
Comme	ents:						25	
	Overall Quality and completeness							
Organi	zation and appearance - Table of contents, summary, page numbers,							
21-30	Well organized, looks good, includes Table of Contents, summary, page score sheet), linkage to appendices.	e numbe	ers, di	iscussio	on of ev	aluation poi	nts (e.g. Iten	ns on the
11-20	Reasonably organized, looks good, missing one or two items from list a	bove.						
1-10	Poorly organized, no attention to looks, missing multiple items from lis	t above.	. (	0	Disorg	anized, miss	ing most iter	ns.
Comme	ents:						30	
Adheren	ice to specifications							
1" marg	heet and/or title page that identifies the school team name, teacher contact inform ins; Business font no smaller than 12 pt., double-spaced (single spaced ok in t rmat Only, 35 pages max for main section, 40 pages max for appendices				nber			
21-30	Adheres to the specifications listed above.							
11-20	Violates one of the specifications listed above.							
1-10	Violates two or three of the specifications listed above.	0	Viol	lates fo	or or mo	ore specs.	1	1
Comme	ents:						30	
Quality of	of content - Well written, clear photo labels, lack of extraneous material such as	commun	ity or	promoti	ional effo	orts, spirit dev	elopment, tear	n building
21-30	Everything is well written/clear/logical, everything is clearly labeled, no	excess	mate	erial.				
11-20	You can follow everything with some effort, one or two things that are	unnece	ssary	<i>'</i> .				
1-10	Hard to understand in places, labels missing in places, unnecessary ma	terial.		0 Ver	ry difficu	ult to follow,	unnecessar	y material.
Comme	ents:						30	
SCORE	CALCULATION and Additional Comments:	Total					300	
							÷10	÷10
		<b>Fi</b>		•			20	
		Final	score	e			30 max	
Judge r	name/number (print):							

Team Number: \_\_\_\_\_\_ School: \_\_\_\_\_

# **2022** Marketing Presentation Score Sheet

Objective: Address the needs of a potential client, share product and brand information and navigate the business environment (25pts)

	Scoring Sections	Possible Points	Points Awarded
Section 1: Comp	oany Overview	75	
Organization	Presented structure/org chart, employee roles, experience levels (grades/years), inclusiveness – team is multidisciplinary and includes roles in engineering, business, presentation skills, etc.	10	
Mission Statement	Defined the team's mission statement – one or two sentences, using simple and concise terms, stating the team's purpose for being, encapsulating culture, values, and ethics.	10	
Brand Promise	Defined the team's brand promise – the value or experience customers can expect to receive every time they interact with the company.	10	
Visual Identity	Created a strong visual identity (logos, color scheme, style book, etc.) based on brand and mission.	10	
Public Image	Presented the team's publicity, social responsibility, community visibility (brochures, press release, outreach to other Schools and Businesses). It included BEST and sponsor logos.	15	
Budget	Presented funding sources (sponsors, in-kind, fundraisers) and engineering development expenses.	10	
Company Sustainability	Presented and explained the 1-year company outlook, including employee development, recruitment, and training. Explained how they will leave the team in better hands for next year.	10	
Comments:			
Section 2: Produ	uct Features	70	
Task Knowledge	Defined the problem and customer priorities (as derived from the game rules). Has specific requirements and specifications listed. Referenced the Client's needs" as listed in the Request For Proposal ("the Game Story") and defined their focused solution.	20	
Meeting Requirements	Described how the specific game details influenced their detailed design. Described how the real physical features of the robot address actions on the physical field. Explained how the product's features solve the client's problem.	20	
Differentiation	Explained how the product features are unique and better than the competition.	20	
Visual Aids	Used visual aids to effectively enhance the presentation (eg. CAD drawing, computer simulation, photos, videos, mockups, infographics, etc.)	10	
Comments:	·		

Judge Name/number (print): \_\_\_\_\_\_

Team Number: \_\_\_\_\_\_ School: \_\_\_\_\_\_

# **2022 Marketing Presentation Score Sheet**

	Scoring Sections		Possible Points	Points Awarded
Section 3: Busin	ess Offer		50	
Sales Price	Showed the product's acquisition cost. May include ind multiple units, delivery, warranty, repairs, training, etc. Showed manufacturing cost – (MLO); part of acquisition on the cost of the Materials, Labor, Overhead. Included an itemized cost breakdown and explained fin Price. (Clarification: Based on real costs of the prototyp hypothetical for the company).	n cost based al	25	
Aftermarket	Addressed details of warranty and training for the clien	t's workforce	20	
Support	to operate and/or maintain the product.		20	
Formal Offer	Formal offer was made in the meeting.		5	
Section 4: Busin Mechanics	ess Professionalism All 4-8 presenters participated; dressed professionally c		55	
Mechanics	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits.	ed within time	<b>55</b> 10	
	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits. Included testimonials to support research or success stored.	ed within time ories.		
Mechanics	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits.	ed within time ories.	10	
Mechanics Endorsements Professional Creativity	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits. Included testimonials to support research or success sto Presentation was understandable, well organized, prep conversational, and engaged in discussion.	ed within time ories. ared,	10	
Mechanics Endorsements Professional	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits. Included testimonials to support research or success sto Presentation was understandable, well organized, prep conversational, and engaged in discussion. Fully responsive to questions.	ed within time ories. ared,	10 10 15	
Mechanics Endorsements Professional Creativity	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits. Included testimonials to support research or success sto Presentation was understandable, well organized, prep conversational, and engaged in discussion. Fully responsive to questions. Presentation was creative and interesting. (Wow Facto	ed within time ories. ared,	10 10 15	
Mechanics Endorsements Professional Creativity Comments:	All 4-8 presenters participated; dressed professionally of based. Students performed all set up/breakdown; staye limits. Included testimonials to support research or success sto Presentation was understandable, well organized, prep conversational, and engaged in discussion. Fully responsive to questions. Presentation was creative and interesting. (Wow Facto	ed within time ories. ared, or)	10 10 15 20	÷10

Judge Name/number (print): \_\_\_\_\_\_

Team Number: \_\_\_\_\_\_ School: \_\_\_\_\_\_

## 2022 Team Exhibit and Interviews Score Sheet Total: 20pts

	Student Interviews	Possible	Points
	Objective: Communicate Company Brand, Learning, and Outreach	Points	Awarded
Scores will	reflect interviews with students at team exhibits, in the pit area and in the stands		
Section 1: Elev	vator Speech and Branding		
Elevator	Clearly defines what benefits the product (robot) delivers. Explains outreach and	20	
Speech	social responsibility. Conveys the company's brand through tone and language.	20	
Branding	Brand promise (what service/reputation your company offers the customer) is evident in the Exhibit. Explains how the product illustrates the company brand.	15	
Comments:			
Section 2: Knc	wledge and Experience with BEST		
Knowledge	Students easily and thoroughly answer technical questions about the robot, team exhibit, and related materials. They show a deep understanding of the design and construction of robot and exhibit; adult contributions are mentioned purely in an advisory capacity.	15	
Learning	Evidence of students' learning experience and understanding of the game. They can clearly articulate lessons learned through experience, and it is evident they understand the game theme.	15	
Enthusiasm (Enjoyed it)	Students describe with obvious enthusiasm and positivity their experience in BEST and show a clear understanding of the organization's mission. Students communicate the impact of the BEST Robotics program on his/her path toward STEM or career choice (testimonial).	10	
Comments:			
Section 3: Out			
Sharing	Sharing information and/or technology resources, and mentoring other schools, including other BEST teams. Clear evidence of support (including testimonials or storytelling) to other schools with information, technology, or encouragement.	20	
Sharing Publicity/ Demos	Sharing information and/or technology resources, and mentoring other schools, including other BEST teams. Clear evidence of support (including testimonials or	20	
Publicity/	Sharing information and/or technology resources, and mentoring other schools, including other BEST teams. Clear evidence of support (including testimonials or storytelling) to other schools with information, technology, or encouragement.Students effectively communicate their publicity methods (print materials, media/press), media platforms used, and specific presentations/demonstrations		
Publicity/ Demos	Sharing information and/or technology resources, and mentoring other schools, including other BEST teams. Clear evidence of support (including testimonials or storytelling) to other schools with information, technology, or encouragement.Students effectively communicate their publicity methods (print materials, media/press), media platforms used, and specific presentations/demonstrations to other schools & community groups about BEST to generate excitement.Evidence that recruitment efforts include multiple grade levels and students from a cross-section of the school population. Clearly identify specific efforts to	20	
Publicity/ Demos Inclusion	<ul> <li>Sharing information and/or technology resources, and mentoring other schools, including other BEST teams. Clear evidence of support (including testimonials or storytelling) to other schools with information, technology, or encouragement.</li> <li>Students effectively communicate their publicity methods (print materials, media/press), media platforms used, and specific presentations/demonstrations to other schools &amp; community groups about BEST to generate excitement.</li> <li>Evidence that recruitment efforts include multiple grade levels and students from a cross-section of the school population. Clearly identify specific efforts to promote inclusiveness.</li> <li>Fundraising and/or sponsorship efforts. Describe strategies to recruit sponsors, team fundraisers, and how any funds raised were allocated to support team (team budget available for review). Presents and demonstrates strong evidence of</li> </ul>	20	

# 2022 Team Exhibit and Interviews Score Sheet

	<b>Exhibit</b> Objective: Display a Visual Story of the Product and Company	Possible Points	Points Awarded
Section 4: Exhi	bit		
Creativity	Creativity in incorporating game theme into design and presentation of this exhibit. Display is unique. Game theme is very prominent.	25	
Technology	<ul> <li>Effective balance of print, multi-media and technology in exhibit.</li> <li>Physical Exhibit (e.g., display boards, physical models, multi-media equipment, etc.)</li> <li>Virtual Exhibit (e.g., graphics vs. text, virtual models, rich multi-media, creative layout, etc.)</li> </ul>	15	
Aesthetics	The exhibit is cohesive, engaging, and interactive. Information is logically arranged.	10	
Compliance	Team, Hub, and national BEST logos / branding are visible. All sponsors are clearly displayed. Compliance with specifications (did not exceed space allocation of 8'X8'X8' cube). Area is neat, clean, well-organized. Evidence that the students were the primary designers and builders of robot, team exhibit, and all materials.	10	
	Interview Subtotal	140	
	Exhibit Subtotal	60	
	Interview & Exhibit Raw Total	200	
		÷ 10	÷ 10
	Exhibit & Interviews Total	20	
Comments: Overall Comme		_	÷

Judge Name/number (print): \_\_\_\_\_\_

Team Number: \_\_\_\_\_\_ School: \_\_\_\_\_

# Judges' 2022 Spirit and Sportsmanship Score Sheet Purpose: To display team spirit & sportsmanship at the competition. (10pts)

	(4 points)		
	Exhibit vigor and enthusiasm throughout competition event.		
12-10	Clear evidence of continued support over an extended time period, group is loud and enthusiastic and consistent encourage opponents.	ment for own tea	m and
9-7	Evidence of support most of time, group is often loud and enthusiastic, but inconsistent for opponent teams.		
6-4	Group is loud and enthusiastic once or twice, and there is not visible encouragement for opponent teams.		
3-1	You can tell some people are rooting for the team once in a while.		
Comme	ents:		
		12	
	Use of signs, posters, props, costumes, t-shirts, etc.		
12-10	Group uses multiple avenues of support - signs, posters, props, costumes, t-shirts, these are creative and noticeable.		
9-7	Group uses three or more methods of support, but they are not particularly creative or noticeable.		
6-4 3-1	Group shows support through one or two methods in a creative way.		
Comme	Group shows support through one or two methods, but they are not creative or noticeable.		
comme		12	
		12	
	Cheerleaders, mascots, bands, organized noise-makers, etc.		
8-6	Group has several of these things (cheerleaders, mascots, bands, noise-makers), they are quite noticeable, and appropriately	used.	
5-3	Group has several things, but they are not prominent and are noticeable or appropriately used.		
2-1	Group has one of these things, but many not noticeable or appropriately used.		
Comme	ents:		
		8	
	Number of supporters with school (other than students)		
8-6	It is clear there are many non-student supporters, and they are actively engaged.		
5-3	There are clearly a few supporters other than students, but appear to be somewhat disengaged.		
	You think they have non-students supporters but you aren't sure.		
2-1			
2-1 Comme		8	
Comme	ents:	8	
Comme	MANSHIP (6 points)		
Comme	MANSHIP (6 points) Outward display of sportsmanship (e.g. helping other teams in need		
Comme PORTS 20-19	MANSHIP (6 points) Outward display of sportsmanship (e.g. helping other teams in need You clearly see and hear of two or more instances of helping another team that are genuine.		
Comme PORTS 20-19 18-15	ANSHIP (6 points) Outward display of sportsmanship (e.g. helping other teams in need You clearly see and hear of two or more instances of helping another team that are genuine. You clearly see and hear of at least one instance of helping another team that are genuine.		
Comme PORTS 20-19 18-15 14-10	MANSHIP (6 points) Outward display of sportsmanship (e.g. helping other teams in need You clearly see and hear of two or more instances of helping another team that are genuine. You clearly see and hear of at least one instance of helping another team that are genuine. You clearly see and hear of instances of helping another team but not authentic.	).	c own team.
Comme PORTS 20-19 18-15 14-10 9-5	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need)         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0       Minimal engagement with other teams, or teams, or teams	).	r own team.
Comme PORTS 20-19 18-15 14-10	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need)         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0       Minimal engagement with other teams, or teams, or teams	). ammates on their	r own team.
Comme PORTS 20-19 18-15 14-10 9-5	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need)         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0       Minimal engagement with other teams, or teams, or teams	).	r own team.
Comme PORTS 20-19 18-15 14-10 9-5	ANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0       Minimal engagement with other teams, or teents:	). ammates on their 20	
Comme 20-19 18-15 14-10 9-5 Comme	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0         Minimal engagement with other teams, or teamts:	). ammates on their 20	
20-19 18-15 14-10 9-5 Comme	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0         Minimal engagement with other teams, or teamts:         Conduct an attitude considered befitting participation in sports (e.g., grace in wir         Team actively cheers for other teams no matter what the circumstances, they always show respect for others.	). ammates on their 20	
20-19 18-15 14-10 9-5 Comme 20-19 18-15	MANSHIP (6 points)         Outward display of sportsmanship (e.g. helping other teams in need         You clearly see and hear of two or more instances of helping another team that are genuine.         You clearly see and hear of at least one instance of helping another team that are genuine.         You clearly see and hear of instances of helping another team that are genuine.         You clearly see and hear of instances of helping another team but not authentic.         Group appears helpful, but you have no direct evidence.       4-0         Minimal engagement with other teams, or teamts:	). ammates on their 20	
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Team Number: \_\_\_\_\_\_ School: \_\_\_\_\_



# **General Information**

## Access to Power for Team Exhibits

Teams will be required to provide their own supplies, including surge protectors/power strips, a 25-foot (recommended) extension cord, and gaffer's tape. Teams are responsible for securing their extension cords to the ground using gaffer's tape. South's BEST staff will facilitate the set-up of exhibits to ensure that all walking paths are clear and cords are securely taped down.

Teams should not use heat-generating devices in their Team Exhibits. This will overload the circuit in the Coliseum and cause problems. Examples of heat-generating devices that should not be used include soldering irons, utility lights (unless it is LED), 3-D printers, etc. If you are uncertain about using a particular device, please contact the Awards and Judging coordinator, Mary Lou Ewald (<u>ewaldml@auburn.edu</u>).

## **Bus Driver Restrictions**

If you're booking a bus, be sure to check with the company about how long the driver can be on duty without having to take a break. Many states have laws regarding drivingtime limitations for bus drivers.

# **Clean-Up and Maintenance of the Coliseum facility**

Auburn University Facilities Management is kind enough to allow us use of this space, but any future use is contingent upon our maintenance of the facility. Encourage students to be good stewards of this facility as we wish to continue using facilities on campus for South's BEST in future years.

- Spray paints and spray adhesives should not be used inside the facility.
- Glitter should not be applied to an object while inside the facility.
- Signage may not be adhered with tape to ANY SURFACE of the facility. This includes to the back wall of the Coliseum for team signs.
- No confetti!

Help us keep the Beard-Eaves-Memorial Coliseum clean and free of trash. In your registration packet you will find a large trash bag for your convenience. Trash bags may be left near any Coliseum garbage can at the end of the event on Sunday. Upon conclusion of Sunday's events please have your students do the following:

- Dispose of all food and drink trash in your team's seating area.
- Remove and dispose (or take with you) any signage used in your team's seating area.

- Remove all trash, items, and portions of your Team Exhibit. Do not leave any part of your team's exhibit behind in the Coliseum. We cannot be responsible for disposing of wood, PVC, etc.
- For all the above, please utilize the dumpster that will be located at the South Entrance of the Coliseum.

#### Concessions

Details on concessions and mealtime options will be shared on the website in mid-November.

## Driver's Meeting (Saturday, 1:30 – 2:00pm)

ALL team members that expect to be in the Pit during the competition must attend this meeting in the Coliseum seating. Teachers and mentors are welcome to attend the meeting to assist students as needed.

#### **Emergency Number**

Determine one adult who will be responsible for receiving any emergency phone calls from home while your team is here. Provide that person's cell number to parents, school officials, and others.

## **First Aid**

An EMT is on-duty both days Saturday and Sunday during the event. Medical emergencies should be reported to Registration. The nearest emergency facility is the East Alabama Medical Center Freestanding Emergency Department located approximately 1.5 miles from the Coliseum:

https://www.eamc.org/location/east-alabama-medical-center-freestanding-emergencydepartment

900 Camp Auburn Road Auburn, AL 36832 Phone: 334-364-3000

East Alabama Medical Center offers a full-service hospital in Opelika at the following address:

East Alabama Medical Center 2000 Pepperell Parkway Opelika, AL 36801 334-749-3411

## Lost and Found

Lost and Found is located at Registration on the 3<sup>rd</sup> floor.

## **Noise-Makers and Band Instruments**

The following are not allowed in or around the Coliseum and will be confiscated:

- Air horns
- Electric instruments
- High intensity/high frequency noise makers

The Head Judge has the right to ban noisemakers that are deemed hearing hazards.

Spirit and Sportsmanship is being judged this year so bands/pep bands will be allowed at South's BEST. Bands will be allowed to play in the stands when instructed to do so by the emcees, but not outside of that time. Bands can play on the 3<sup>rd</sup> Floor Concourse at anytime

# **Parking and Unloading**

Auburn University does not ticket during weekends. However, vehicles parked in areas not specifically designated for vehicle parking (sidewalk, grass, etc.) may be ticketed and towed at the owner's expense. Parking is sometimes a slow process. Please be mindful of this when setting your departure times. In this packet you will find parking maps for cars, trailers and buses. Please print these maps and bring them with you to the event.

- Suggested Parking Areas:
  - Cars are encouraged to park in the following lots: Beard-Eaves-Memorial Coliseum Parking Lot, and the Stadium Parking Deck
    - Note that there is a women's basketball game at the Arena on Saturday afternoon and a swim competition on Sunday of South's BEST so parking near the Coliseum may get crowded. Showing up early to park can never hurt your chances!
  - Buses must park at the Intramural Fields.
  - Trailers may park at both the Beard-Eaves-Memorial Coliseum Parking Lot and the Intramural Fields
- Designated Unloading Areas:
  - Materials Unloading: Cars and small trailers carrying exhibit materials should unload at the 5 Minute Unloading Zone (see map in this handbook) located on the South Entrance of the Beard-Eaves-Memorial Coliseum.
    - Each team should have a group of students, parents, mentors (other than the driver of the vehicle) prepared to remove the exhibit from the vehicle in a timely manner.
    - The driver of the vehicle should <u>NOT</u> leave the vehicle at any time during the unloading process.
    - A South's BEST staff member will be available on site during the unloading times to assist and ensure a smooth process.
  - Students: Students arriving in buses should be dropped off at the EAST entrance of the Beard-Eaves-Memorial Coliseum. Please see the 2021 Map for procedures for dropping off students from buses.

## Photos & Video – Blanket Release Permission

South's BEST assumes <u>blanket permission</u> to photograph and video team members, teachers, parents, chaperones, mentors, and others in attendance. These are used for promotional purposes in printed materials, videos, and on BEST websites.

## **Souvenirs**

South's BEST souvenirs and a <u>limited number</u> of championship t-shirts will be on sale at registration. We recommend that teams pre-order their souvenir t-shirts.

## **Team Banners**

Teams may post spirit banners on the railing in the Coliseum from 9:00 a.m. to 1:00 p.m. on Saturday and before the start of the competition on Sunday. Banner restrictions:

- Banners must contain grommets at the top and be attached with string or cable ties.
- No tape is allowed. Teams should bring their own string/ties and scissors.
- Banners may not have any design or language of a crude nature.
- Banners and other team signage are not to be posted at other sites in the Coliseum or elsewhere on campus.
- All banners (including rope and cable ties) MUST be taken down and REMOVED from the Coliseum at the conclusion of the event.

Note that teams will not be allowed to tape signage to any surface of the Beard Eaves Memorial Coliseum.

# **Team Seating in Stands**

Teams will be assigned a seating location upon check-in on Saturday morning. Teams may NOT rope off seating areas due to fire code restrictions.

#### QUESTIONS:

Event Logistics should be directed to Jessica Gilpin at jag0038@auburn.edu

Awards and Judging should be directed to Mary Lou Ewald at ewaldml@auburn.edu

Technical/Game/Pit should be directed to Garon Griffiths at griffgj@auburn.edu



# **Student Code of Conduct**

South's BEST expects teams and supporters accompanying them to conduct themselves in an appropriate manner while participating in the Championship. This includes all activities associated with their participation in the event.

- Appropriate conduct of teams and supporters is the sole responsibility of school officials and other adult chaperones that have legal responsibility as supervisors.
- Students should be under the supervision of school officials or chaperones during all excursions and competition activities, including while in hotels and restaurants.
- Students who violate the conduct code at any point during South's BEST are subject to suspension from remaining competition activities.
- South's BEST reserves the right to refuse participation in future competitions, to any team whose behavior has been disruptive.

Inappropriate conduct includes, but is not limited to, the following:

- At no time should any South's BEST participant (student or adult) be found in "No Access" zones in the Coliseum. No Access zones include those marked with signage, and the entire 2<sup>nd</sup>, 4<sup>th</sup> and 5<sup>th</sup> floors of the Coliseum, except for permitted stairwells. Violation of this rule will result in disqualification of the team with which the violator is associated.
- Property damage, vandalism, or theft.
- Appropriation of Auburn University or South's BEST memorabilia.
- Use of alcohol or illegal drugs.
- Use of water pistols, water balloons, or other creative missiles.
- Fighting, loud/foul language, or other disruptive/rude behavior.
- Disruptive and excessive noise during activities other than the actual competition.
- Inappropriate dress. Students are expected to wear shirts/t-shirts and shoes.
- Distractive apparel that displays design or language of a crude nature.

# Financial liability for all damages or losses incurred by actions of team members and supporters shall be the sole responsibility of the team/school.



#### Driver's Meeting (Saturday, 1:30pm to 2:00pm)

This is a **mandatory meeting** for <u>ALL</u> team members that expect to be in the Pit during the competition. Teachers/mentors are welcome to attend the Driver's Meeting to assist students as needed. The meeting covers information provided in this document as well as other logistics.

#### I. General Information

#### Access to Power

There is no power access at teams' pit tables. Power is only available at the Battery Charging Station and Pit Repair Stations located at the rear of the Pit (see *Pit Stations* below).

#### Access to the Pit

#### Saturday

- Teams will be allowed to access the Pit once their team has registered at the Registration Desk (3<sup>rd</sup> Floor – Beard-Eaves-Memorial Coliseum) from 8:30am – 12 noon on Saturday.
- Pit access is limited to one specific stairwell, which will be identified with signage.
- During check-in, teams will receive Pit Packets at the Registration Table on the 3<sup>rd</sup> floor of the Coliseum. Pit Packets will contain: 8 Driver's bracelets, a Team Rep button, 5 student Pit Passes, 1 student/adult Pit Pass and a Drivers List (to be completed and submitted to Pit Boss).
- Loading in/out machines and equipment can only be accessed through the South Entrance of the Coliseum (see event map). Security will be posted there to help guide teams to the Pit.
- Due to the number of teams and the limited size of the Pit, we must control the number of people on the floor. We will not enforce a strict number of students and adults per team that can be on the floor prior to the seeding matches. However, this area will be continually monitored for safety.
- When seeding matches begin (approximately 3:00 pm on Saturday), only those with a Pit Pass will be allowed in the Pit and on the floor. Each team will receive five student Pit Passes in their Pit Packet for use on Saturday and Sunday during matches. Each team will also receive one student/adult Pit Pass to be used by adults on a very limited basis in cases of urgency or emergency. When the student/adult Pit Pass is not being used by an adult, it may be used by a student. **No pass, no access.**

#### Sunday

- The Pit opens at 8:30am on Sunday. Teams should continue to use the designated Pit entrance and access will still be limited to those wearing a Pit Pass.
- Pit Passes must be worn at all times by team members while in the Pit. It is up to each team to determine who needs to be in the Pit and how passes will be swapped.

#### Driving

#### **Drivers List**

• Each team must turn in a driver's list, due by the start of the Driver's Meeting Saturday at 1:30pm. Team members that are not on the list and who attempt to drive will not be allowed to do so. Drivers will drive in the order provided on the list.

#### **Driving Practice Matches (Saturday)**

- Driving practice matches are simulated game matches: three minutes each; two sets of four teams each will practice at a time; and one driver and spotter per team.
- Driving practice runs from 9:30am 1:00 pm and is optional for teams.
- Teams may sign up for practice matches after they successfully pass Compliance Check-in, which occurs on Saturday from 8:30am 12:00pm.

#### **Driver Rotation**

• Drivers must rotate equally throughout the competition; teams are responsible for rotating in the order provided on their driver's list.

#### Safety Glasses

- Due to Health & Safety concerns, teams MUST provide their own safety glasses. Safety glasses are required for your team to compete.
- Teams are encouraged to bring extra safety glasses and wear them while working in the Pit.

#### Vests

• At check-in, each team will receive two safety vests with the team's number attached. These vests are the team's responsibility throughout the competition and are required to be worn by drivers and spotters during matches.

#### Wristbands

• At check-in, each driver will be issued a wristband with his/her team number. The wristbands will be checked at Staging to ensure that drivers are rotating as required. Wristbands should be worn on both Saturday and Sunday. You will only receive one set of wristbands. Do not let students lose them on Saturday night.

#### **Pit Stations**

#### **Battery Charging Station**

- All battery charging is done at this station; teams must use their own BEST-provided charger at the Battery Charging Station.
- Teams should designate one member to monitor the battery and charger.
- Illegal (non BEST-issued) chargers or batteries will not be allowed.
- No other types of equipment or cell phones may be charged at this station.
- South's BEST is not responsible for lost or stolen batteries and has no replacements.

#### **Power Tool Repair Station**

• All repairs requiring power tools must be done at this station; teams must provide their own tools.

#### **Soldering Station**

• All soldering must be done at this station; teams must provide their own iron and solder.

#### **Team Equipment & Materials**

 Teams should label/tag any personal equipment, tools, or materials that will be used at any of the repair stations. Teams that choose to leave equipment or materials at their Pit table overnight do so at their own risk.

#### **Replacement Parts**

 South's BEST will NOT supply additional parts for robots at South's BEST. It is up to the hub from which you advanced to provide you with additional parts should yours become damaged (or defective). Most hubs will have a representative available at South's BEST who will bring additional parts with them. Otherwise, they should send your team to South's BEST with additional parts. If you have questions about this, please contact your local hub director.

#### **Team Numbers & School Names**

Each team's robot is required to have the team number and school name in an easily visible location. The number must be a minimum 2" in size.

#### II. Resolving Problems Teams May Encounter

#### **Team Rep Button**

• Each team will have one button in their Pit Packet that is to be worn by a <u>Student</u> voicing a concern to the Team Advocate. **No button, no response.** 

#### Pit Problems – Team Advocate

- If a team has problems regarding equipment, event personnel, or other teams, they should address them to the Team Advocate, who is THE ONLY person designated to handle them. The Team Advocate(s) will be introduced at the Driver's Meeting so that teams will be able to recognize him/her during the competition.
- Only ONE team member (not a mentor) can approach the Team Advocate concerning a problem and they must be wearing their Team Rep Button.
- The Team Advocate will work with the team to resolve the problem. If it cannot be resolved, the Team Advocate will consult with the Pit Boss, Floor Boss, Head Referee, and/or Head Scorekeeper for a final ruling.

#### Game-Specific Challenges

• Teams that have a conflict or problem with scoring, field electronics, etc. should approach the Team Advocate initially. If the issue cannot be resolved immediately, the Team Advocate will consult with the Head Referee, Floor Boss, and/or Head Scorekeeper.

#### Floor Boss

- The Floor Boss oversees the entire competition area: Pit, Staging, Playing Field, and Scorekeeping areas.
- The Floor Boss is consulted when the Pit Boss, Team Advocate, Head Referee, and Head Scorekeeper cannot resolve problems and issues that are brought to them by teams.

#### III. Compliance Check-In

Regardless of how Compliance check-in was performed by your local hub, at South's BEST teams will follow our established policies and procedures. Failure to abide by South's BEST Compliance check-in policies and procedures could result in disqualification.

Teams will <u>not</u> be allowed to practice drive on Saturday or compete on Sunday until or unless their machines are in full compliance.

Included in this handbook is a document entitled *Compliance Checklist*. We strongly suggest you go through this list BEFORE you come to South's to ensure your team is eligible to compete.

#### Saturday

- South's BEST will NOT conduct a Critical Design Review but will conduct Compliance check-in.
- Compliance check-in takes place in the Pit from 8:30am 12:00 noon on Saturday.
- Teams whose machines are non-compliant when Compliance check-in concludes at 12:00 noon will not be allowed to compete.
- At the end of matches on Saturday, robots will be impounded and will be kept in the Coliseum, which will be secured overnight.



# **Driver and Spotter Protocol**

#### Prior to Match Play

Each team must submit a Drivers List (in the pit packet) during the Driver's Meeting.

The minimum number of student team members on the driver list is shown in the following table:

Robotics Team members	Minimum number of	
present at competition	students on Drivers List	
2-4	2	
5-6	3	
7-8	4	
9 or more	5	

BEST encourages participation by as many team members as possible.

The first person on the Drivers List is the driver for the first match; the second person on the list is the driver for the second match, etc.

This rotation continues for successive matches.

Rotation during wild card, semi-final, and final matches will begin where the seeding round rotation left off.

If a match is eliminated for any reason, the driver rotation will continue in accordance with the driver list, with the driver scheduled for the eliminated match (or matches) being the first driver for the following match.

The spotter(s) may be any students from the team. NOTE: This may change due to game-specific rules. Be sure to check the game-specific rules for details.

#### During Match Play

Only one team member is allowed in each of the Driver's & Spotter's "squares," respectively.

Adults are not allowed in the Staging or Playing Field areas.

Drivers & Spotters may not stand on platforms of their own construction in the squares.

Drivers & Spotters may not communicate with anyone (including each other) through the use of any electronic devices or other signaling aids.

# Machine Compliance Check 2022

Team Name		Team Number	
General		Comments:	
<ul> <li>weight less than 24 lb (with battery and detachable parts)</li> <li>size less than 24" cube (unconstrained, can be powered)</li> <li>team number (visible?)</li> <li>multiple configurations? (check each one)</li> </ul>			
Control System			
	no rubber bands     no sol       no tape of any kind     on/off       motor     motor	<b>x</b> ed (use mounting holes) ler (use RK cables) switch (must be accessible) ports 1 and 10 not used attery secured (holder/mount)	
General Parts Check			
<ul> <li>no paint, adhesives or tape on returnable parts (except as noted<sup>1</sup>)</li> <li>no modified returnable parts (except for servo homs and 3' belt)</li> <li>only allowable parts/materials/quantities - see Kit Lists</li> <li>detachable parts? (must be weighed and measured with robot) - incl. team-built arms</li> <li>team-built Squeaky arms (size, materials) (measured separately 8" x 8" x 24")</li> </ul>			
team-built Squeaky arms (weighed with robot)			
Team Custom Parts (two parts are allowed)			
	each part could fit within 2" x 4" x 4" cubiod		
	each part is made from a uniform material		
raw stock shape is rectangular or cylindrical (if applicable)			

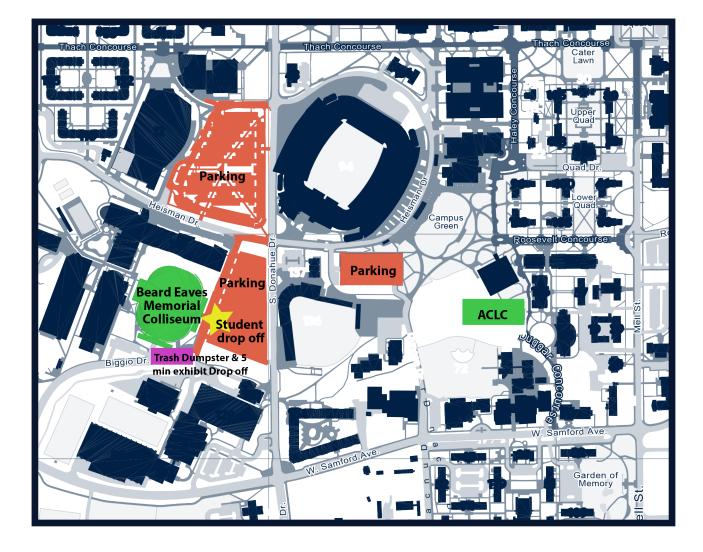
Comments:



# 2022 Event Map

Beard Eaves Memorial Coliseum 650 Biggio Dr. Auburn University, AL 36849 ACLC 347 Duncan Dr. Auburn University, AL 36849

Green = Event spaces Orange = Car parking spaces Yellow Star = Student drop off Purple = Trash dumpster and five-minute exhibit drop off





# Parking Logistics (all parking is marked in orange)

- 1. Cars may park in any legal parking spot
- 2. Buses should park in the hayfield lot
- 3. Parking on Friday must on the fourth flour of the stadium parking deck

# Bus Directions (follow the blue dotted line from BEMC)

1. The bus parking lot is located across the street from the Nursing school (710 S. Duncan Dr.)

- 2. From Donohue Dr., turn east onto Woodfield Dr.
- 3. Turn left into parking lot

