Society of Women Engineers

2020 Call For Nominations
SWENext Awards

STUDENT

SWENext Community Award
SWENext Global Innovator Award

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General Information

The Society of Women Engineers strives to recognize the successes of SWENext students and SWENext Clubs that do exceptional work in developing a community for students to explore engineering and other STEM fields. The SWENext mission is to:

- Empower females under the age of 18 to prepare for careers in engineering and technology.
- Provide programming to help females under the age of 18 to develop leadership skills and self-confidence to succeed in a career in engineering and technology.
- Expand the image of the engineering and technology professions as a positive force in improving the quality of life.
- Demonstrate the value of diversity and inclusion.
- Provide programming to empower females under the age of 18 to become advocates for peers and younger girls.

Inside this packet you will find information on the awards offered by the Society of Women Engineers for SWENext students and SWENext Clubs who are working to further the SWENext mission. An ‘Application Checklist’ is included that details the requirements needed to fully complete an application package. Please contact awards@swe.org if you have any questions. Note: you may apply for more than one award.

How to Complete the Application:

- Fill out the appropriate ‘Application’ online:
- Submit the application online by July 31st.
- Packages MUST BE RECEIVED by 11:59 PM, Central Time.
- No exceptions will be made for late packages.

Important Information:

- All applications are to be submitted electronically through the application tool.
  - If sent to any other address, packages cannot be forwarded for you. It is your responsibility to submit applications per these guidelines.
- Incomplete applications that do not meet the award requirements will be disqualified.

Notifications:

- Recipients will be notified via email in August.
- Recipients do not need to be present to receive the award.
SWENext Community Award

Objective:
- This Award Program emphasizes the impact SWENexters can have in their communities to solve real-world problems. This award also stresses the interconnectedness of the SWE Community and gives awardees a chance to interact with SWE members, companies, and colleges.
- There will be up to twenty-five recipients. One poster will be declared the ultimate individual winner and one ultimate team winner based on the best judges’ scores.

Eligibility:
- SWENexters who are entering Grades 9, 10, and 11 (in Fall 2020). Girls can submit a poster as individuals or in teams of two. Individuals and teams will be judged separately.

Application Checklist:
The following information constitutes a complete nomination:
- A completed application submitted online: https://app.smarterselect.com/programs/66187-Society-Of-Women-Engineers
- A completed application form:
  - SWENext student information
    - Are you entering this competition as an individual or team of two?
    - Name
    - Email
    - SWENext membership
    - Grade in the upcoming fall
    - Name of High School in the upcoming fall
  - Parent/Legal Guardian information:
    - Name
    - Email
    - Cell phone number
    - Home phone number
    - Mailing address
  - SWENext additional student information (if part of a team)
    - Name
    - Email
    - SWENext membership
    - Grade in the upcoming fall
    - Name of High School in the upcoming fall
  - Parent/Legal Guardian information (of second student if part of a team):
    - Name
    - Email
    - Cell phone number
    - Home phone number
    - Mailing address
  - Award submission
    - Create a poster to address the following Award Prompt:


CyberAttack in New Orleans!

On December 13, 2019, New Orleans city officials detected suspicious activity on its networks indicating a potential cyberattack. The suspicious activity increased over the next several hours and approximately 4,000 New Orleans government computers were affected by the ransomware cyberattack. Multiple public services have been affected. New Orleans officials never received a ransom request and all data impacted by the cyberattack can be recovered, but there is no timetable for when all affected computer systems will be restored. In addition to many other tasks required to make up for the damages done, the city has now purchased cybersecurity insurance and will have to spend millions more to repair systems, purchase new hardware, and redesign its IT infrastructure.

People who work in Information Security ensure the safety of people’s online identity and their information. Imagine you were part of the Information Security team in charge of redesigning the networks of New Orleans and protecting against future
cyberattacks. Your team is in charge of researching and creating solutions for online identity theft.

- How would you educate fellow citizens to protect against identity theft?
- Would you advise citizens to carry “Smart ID” cards?
- What documents or procedures would you recommend for people to prove their identity online or in-person?
- What advice would you give regarding the use of social media and protecting personal information?

- We encourage the use of photos, graphics, and citations (if applicable).
- Please attach your poster (dimensions MAX: 22” X 28”) in PDF or Power Point format.

**Award Judging Guideline:**

Your poster should include:

- Your name, the Problem Statement, Background on the Problem, including but not limited to, research, personal observations and experience, Potential Solutions, and Suggested Next Steps.

**Award Details:**

Recipients will receive:

- Recipients will be invited to attend the SWENext High School Leadership Academy.
- Recipients will be recognized on SWENext website, social media outlets and in a monthly newsletter.
- Online presentation of posters to professional engineers.
- Certificate of Achievement
- A “Watch me change the world” t-shirt
- The ultimate winner in each category (individual and team) will receive a tablet (three tablets total)
SWENext Global Innovator Award

Objective:
- The SWENext Global Innovator Award recognizes the outstanding young women shaping the future of SWE by developing an engineering identity in themselves and others. Award recipients exemplify intellectual curiosity, enthusiasm, and leadership in the STEM community. These students demonstrate a commitment to bettering the lives of women in STEM, volunteer in outreach initiatives, and are pursuing a career in engineering. This is the ultimate award a SWENexter can receive and is comparable to the Outstanding Collegiate Award.
- There will be up to six recipients. Ten additional recipients will receive an “Honorable Mention”.

Eligibility:
- Applicants must be a SWENext member.
- SWENexters who are entering their senior year of high school are eligible (Grade 12 in Fall 2020).

Application Checklist:
The following information constitutes a complete nomination:

- A completed application submitted online: https://app.smarterselect.com/programs/66190-Society-Of-Women-Engineers
- A completed application form:
  o SWENext student information
    ▪ Name
    ▪ Email
    ▪ SWENext membership
    ▪ Grade in the upcoming fall
    ▪ Name of High School in the upcoming fall
  o Parent/Legal Guardian information:
    ▪ Name
    ▪ Email
    ▪ Cell phone number
    ▪ Home phone number
    ▪ Mailing address
  o Leadership information:
    ▪ About how long have you been a SWENext Member?
    ▪ Are you a member of a SWENext Club?
    ▪ Are you or have you ever been a SWENext Club Officer or a leader of an engineering club/organization? If yes, please list your roles. If none, please write N/A.
    ▪ Which field of engineering are you interested in? Select up to two options.
  o Award submission
    ▪ Essay 1 (Maximum 200 words):
      ● Describe your involvement with SWENext. Have you participated in a SWENext Club, at a SWENext event, a talk, maybe a design challenge, or maybe an online webinar? What steps have you taken to become more involved in the SWE community?
    ▪ Essay 2 (Maximum 200 words):
      ● How have you used engineering principles in your life? Describe how you have developed technical skills, used the engineering design process, or have tackled some sort of project using problem-solving skills.
    ▪ Essay 3 (Maximum 200 words):
      ● How do your answers to the previous questions relate to the work you have done in your community? We want to know how your engineering ambitions translate to the service you do to improve the lives of those around you?
    ▪ Essay 4 (Maximum 200 words):
      ● How are you a leader at your school or in your community? And how do your leadership roles connect to your passion for engineering and STEM? We are looking for more than just the next best engineer; we want someone who demonstrates the ability to lead as well.
  o Video:
    ▪ We want to see the work you do in action. Create a video that is less than 3 minutes long. Note: a video longer than 3 minutes will DISQUALIFY your application.
      ▪ Helpful video resources:
• https://www.powtoon.com/ (Create animated videos and presentations)
• http://igamemom.com/explain-everything-screencast-digital-storytelling-presentation/ (Design and video production app for tablets)
• http://tinytake.com (Create videos on your computer screen and with your webcam)

  o Many public libraries have computer access and rentable filming equipment. Check your local public library for details.
  o Quality is not the ultimate deciding factor but please use the resources available to you to submit your best work.
  o Your video submission should highlight:
    • Information about you and your engineering field of interest
    • Your passion and excitement for engineering
    • Examples of how you are developing a STEM identity in yourself and other young women
    • Your involvement in SWENext, your community, and your leadership roles
    • Your future accomplishments/plans
    • Please upload a copy of the video to a file sharing service like googledrive or dropbox and provide a sharable link below. Note: If uploading to googledrive, make sure the sharing permissions are set to “viewable for anyone with a link.”

Award Judging Guideline:
Your essays should include examples of your involvement in SWE and SWENext, examples of using engineering principles, examples of your STEM-related community work, and examples of your STEM leadership.

Your video should include Information about you and your engineering field of interest, Your passion and excitement for engineering, Examples of how you are developing a STEM identity in yourself and other young women, Your involvement in SWENext, your community, and your leadership roles, and Your future accomplishments/plans.

Award Details:
Recipients will receive:

- Up to 6 recipients will be recognized on SWENext website, social media outlets and in a monthly newsletter.
- Up to 6 recipients will receive a $1,000 visa card stipend to be applied towards purchases to prepare for college (i.e., a new laptop, textbooks).
- Up to 6 recipients will receive participation in the SWENext High School Leadership Academy
- Up to 6 recipients will receive a trophy.
- Up to 6 recipients will receive SWE swag, including a “Watch me change the world” t-shirt.
- “Honorable Mentions” will receive a Certificate of Achievement and SWE swag, including a “Watch me change the world” t-shirt.
**SWENext Clubs Best Practices**

**Objective:**
- To recognize SWENext Clubs that have hosted STEM outreach events to further the SWENext mission of engaging the K-12 community in engineering through hands-on activities and mentorship.
- All award submissions are subject to be included as “Best Practices” in the future.
  - The goal of “Best Practices” is to create an avenue for sharing ideas amongst SWENexters and strengthening member efforts to meet the goals and objectives of the Society.
- There will be one SWENext Club recipient for the “STEM Outreach” category.

**Eligibility:**
- Your SWENext Club must be a registered SWENext high school club.
- Your SWENext Club Counselor must have an active SWE Membership.

**Application Checklist:**
The following information constitutes a complete nomination:

- A completed application form:
  - SWENext Club Information
    - Club name
    - City and State
    - Founding year
    - Total number of Club Members (2019-2020 School Year)
    - Grade levels the club members will be in the Fall. (Students are required to be in High School in the fall to apply for this award.)
    - T-Shirt sizes of all club members. Please format “3S, 5M, 6L” meaning “3 small shirts, 5 medium shirts, 6 large shirts.”
  - Counselor Information
    - Name
    - SWE membership ID number
    - Email address
    - Phone number
    - Mailing Address
  - Student Point of Contact information
    - Name
    - Affiliation with Club/Club Officer Position
    - Email
    - Grade this Upcoming Fall
  - Award submission
    - Please tell us a little bit about your SWENext club (Location, when it was founded, grade range, school/community organization affiliation, number of members, club mission or goals, etc). [Max 100 words]
    - Best Practice in STEM Outreach
      - Please detail the specific STEM outreach event(s) your club hosted. What activities did you lead during the outreach event(s) and what STEM principles did they communicate? What were the target audiences of your STEM outreach event(s) and how did you tailor your outreach events to engage your target audience in engineering for younger students over the past year? [max 200 words]
      - Why did your club choose to do the STEM outreach event(s) and what was the community impact of your event(s)? [max 150 words]
      - How many students participated in the event and how many volunteers helped run the event (including club members and others)? Did you engage with a local SWE professional or collegiate section to put on the event(s)? If so, how did you engage with them and how many SWE members participated? [max 150 words]

**Award Judging Guidelines:**
Your short essay questions will be judged on how thorough each part of each question was answered, if your club’s passion for STEM Outreach shines through your answers, and the overall quality of your outreach efforts (ie. tailoring
your outreach events to the target audience, measurable successes like from a post-event feedback survey, clear strategies to communicate STEM principles to other students, etc.). You will receive additional points if you collaborated with Collegiate or Professional SWE members to do outreach events.

**Award Details:**

Recipients will receive:
- Recipients will be recognized on SWENext website, social media outlets and in a monthly newsletter.
- Recipients will be invited to attend the SWENext High School Leadership Academy.
- A trophy for the SWENext Club.
- A $200 gift card to SWE store for the SWENext Club.
- A $500 Visa gift card to assist the SWENext Club in putting on future Outreach events.
- Each club member will receive SWE swag, including a “Watch me change the world” t-shirt.
SWENext Clubs Challenge

Objective:
- The goal of this award is to recognize an outstanding SWENext Club that can develop a hands-on STEM activity for elementary or middle school-aged students to do at home. Additionally, the goal is to have the students participating in this challenge practice their own curiosity through STEM-related events and/or activities. Also, we hope that SWENext Clubs forge virtual connections with their local SWE Sections and prepare to form more connections in the future.
- There will be one SWENext Club recipient.

Eligibility:
- High school aged (9-12th graders) SWENext Clubs are eligible to participate.
- Your SWENext Club Counselor must have an active SWE Membership.

Application Checklist:
The following information constitutes a complete nomination:

- A completed application submitted online: https://app.smarterselect.com/programs/66183-Society-Of-Women-Engineers
- A completed application form:
  - SWENext Club Information
    - Name
    - City and State
    - Club members need to be in high school in the fall. Please enter the total number of club members participating in the challenge (K-12).
    - Please enter each club member's first and last name who is participating in the challenge.
    - T-Shirt sizes of all club members who participated in the challenge. Please format “3S, 5M, 6L” meaning “3 small shirts, 5 medium shirts, 6 large shirts.”
  - Counselor Information
    - Name
    - SWE membership ID number
    - Email address
    - Phone number
    - Mailing Address
  - Student Point of Contact information
    - Name
    - Affiliation with Club/Club Officer Position
    - Email
    - Grade this Upcoming Fall
  - Award submission
    - Video:
      - Create a 5-7 minute video that:
        - Helps young students Practice Curiosity: Demonstrate a hands-on engineering activity that your club has developed for elementary or middle school-aged students that they can do at home. This means that all materials for this activity must be found in the average household. Explain what field of engineering this activity is related to and how engineering principles can be broken down for a young audience. Provide a virtual component for this activity – this could be a website, interactive video, blog, Instagram challenge, or anything you see fit.
        - Explains how your SWENext Club Practices Curiosity: This should provide an overview of your SWENext Club (location, number of members, grade levels, etc.), how it was founded, and how your members Practice Curiosity through recent events or activities your club has participated in.
        - Bonus points for Clubs that worked with their local Professional or Collegiate SWE Sections to Practice Curiosity to address either of the above components of the video. Explain how your Club connected virtually and share how the Clubs Challenge helped prepare you to form more virtual connections in the future.
      - Helpful video creation resources:
Many public libraries have computer access and rentable filming equipment. Check your local public library for details.

Quality is not the ultimate deciding factor but please use the resources available to you to submit your best work.

Please upload a copy of the video to a file sharing service like Google Drive or Dropbox, or Youtube. Ensure that your sharing settings on the video are “Public” or “Anyone can view.”

**Award Judging Guidelines:**

*Your video must be within 5-7 minutes. If your video is not within this time frame, your submission will be disqualified.* Your video submission will be judged on how thorough your club details each aspect of the above prompts, how feasible your hands-on STEM activity is to do at home, how engaging your hands-on STEM activity and virtual component of your STEM activity are, the overall passion and enthusiasm of those in the video, and the video quality itself. You will receive bonus points if you collaborated with your local Collegiate or Professional SWE section to address any of the aspects of the video prompts.

**Award Details:**

Recipients will receive:

- Recipients will be recognized on SWENext website, social media outlets and in a monthly newsletter.
- The winning video will be posted to the SWENext Youtube Channel.
- Recipients will be invited to attend the SWENext High School Leadership Academy.
- A trophy for the SWENext Club.
- A $200 gift card to SWE store for the SWENext Club
- A $1,000 Visa gift card to assist the SWENext Club in putting on future Outreach events.
- A Certificate of Achievement for each SWENext Club member that participated in the challenge.
- A “Watch me change the world” t-shirt for each SWENext Club member that participated in the challenge.