STEM School of Excellence Application Process and Criteria

ITEEA's STEM Center for Teaching and Learning™ recognizes outstanding schools for their commitment to providing a robust Integrative STEM education program. Schools recognized exemplify outstanding leadership in the field of STEM education. Recognized schools undergo a rigorous application process requiring detailed documentation to demonstrate a strong Integrative STEM program. A panel of reviewers will reach consensus that the documented evidence represents excellence in Integrative STEM education.

ITEEA created the designation as a way to officially recognize those schools whose teachers, administrators, and other stakeholders are providing a meaningful STEM education experience for students. By highlighting these schools, ITEEA hopes to help others learn effective best practices and continue sharing them more broadly into the larger STEM Education community.

Awards are made at two levels using a vetted application review process:
- ITEEA STEM School of Excellence (200+ points)
- ITEEA STEM School of Merit (170-199 points)

Award recipients will be recognized at the ITEEA International Conference in Denver, Colorado in March 2021:
- ITEEA STEM School of Excellence schools will receive a banner and certificate for display in the school
- ITEEA STEM School of Merit schools will receive a certificate for display in the school

Recognized schools will be posted on the ITEEA STEM School of Excellence website page with school program description, pictures, video links, etc. To learn more about this program, please visit our ITEEA STEM School of Excellence website at www.iteea.org/STEMschoolofexcellence.aspx. Please send any questions about the application process to stemsoe@iteea.org or call ITEEA at 703-860-2100.

The application window for the 2020-21 school year is May 1 – December 1, 2020.

Qualifying Activities
The next section prompts you to provide details and documentation for the activities in which your school participates that can support your application. Some activities require details such as a Technology Student Association (TSA) advisor's name or the title of a presentation given by

one of your school's staff members. Other activities require that a document be uploaded (*PDF or image files only) or linked.

In order to receive points for an activity, the required documentation must be included.

1. School produces completers in a STEM career pathway (30 pts). Describe pathway requirements and numbers of completers in 2019-20.

2. School participated in a STEM outreach or community service project during the 2019--20 academic year (30 pts). Provide description of project and include photos (#3).

3. Photo upload (10 pts), STEM outreach or community service project (maximum 1 photo or PDF containing up to 4 photos).

4. Two or more teachers collaborated on an integrative STEM project during 2019-20 academic year (30 pts). Provide teachers' names, subject areas, brief description of project focusing on the integrative nature of the teaching and learning, and include photos (#5).

5. Photo upload (10 pts), collaborative, integrative STEM project (maximum 1 photo or 1 PDF containing up to 4 photos).

6. School sponsored an initiative/project focused on diversity in STEM education during the 2019-20 academic year (30 pts). Provide description of project and include photos (#7).

7. Photo upload (10 pts) , initiative/project focused on diversity in STEM education (maximum 5 photos).

8. School sponsored a family-oriented STEM event during the 2019-20 academic year (30 pts). Provide description of project and upload photos (#9).

9. Photo upload (10 pts), family-oriented STEM event (maximum 1 photo or 1 PDF containing up to 4 photos).

10. School sponsored a STEM Career Fair or similar event during the 2019-20 academic year (30 pts). Provide description of project and upload photos (#11).

11. Photo upload (10 pts), STEM Career Fair (maximum 1 photo or 1 PDF containing up to 4 photos).

12. School has active ITEEA Integrative STEM School Membership (20 pts) at time of application. (Provide membership number.)

13. School staff are ITEEA members (5 pts per member on staff) Active member status at time of application is required. Provide individuals' member name(s) and number(s).

14. Teacher or administrator gave a STEM or STEAM Education conference presentation during 2019-20 academic year at a national or international conference: ITEEA Annual Conference, NSTA STEM Forum, NSTA, ASCD, ASEE, NCTM, NAEA or other National/International Conference (20 pts). Provide conference title, date of presentation, presentation title, and name(s) of presenter(s).

15. Teacher(s) or administrator(s) attended the 2020 ITEEA International Conference in Baltimore (5 pts per attendee). Provide name(s) of attendee(s).

16. Principal participated in Administrators' Strand at 2020 ITEEA International Conference in Baltimore (10 pts). Provide name(s) of attendee(s).

17. Teacher(s) or administrator(s) participated in the STEM Showcase at 2020 ITEEA International Conference in Baltimore (20 pts). Provide name(s) of presenter(s) and title of presentation.

18. STEM or STEAM Education publication by staff member(s) in a peer-reviewed journal (20 pts). Provide complete article citation and provide article URL if available.

19. At least one Engineering byDesign course was taught in the 2019-20 academic year (20 pts). List teachers' name(s) and course(s) taught.

20. Staff posted to IdeaGarden (10 pts). Provide member name, title, and date of post.

21. Post school event in ITEEA's *STEM Connections* (10 pts). Provide member name, date, and title/description of post.

22. Active Technology Student Association (TSA) chapter (or similar CTSO) 2019-20 school year (15 pts). Provide chapter advisor name and chapter number.

23. Participation in Technology Student Association event (or similar CTSO) during 2019-20 school year (15 pts). Provide chapter advisor name and event.

24. Staff member participated in ITEEA STEM CTL™ professional learning event during the 2019-20 school year: I-STEM Education PLC, EbD™ Summer Institute, or EbD™ PD Webinar (15 pts). Provide staff member's name, date(s), and title of PD event.

25. Staff STEM Spotlight participant during 2019-20 school year (15 pts). Provide link to your STEM Spotlight feature.

26. Establish a safety protocol for your STEM lab and post it on your classroom or school website (15 pts.). Provide the link to your safety protocol document.

27. ITEEA Task Force participant on staff (10 pts). Provide participant name and name of task force.

28. Staff member served as EbD™ course author, reviewer, or focus group participant during the 2019-20 academic year (15 pts). Provide name of participant and course.

29. Participated staff produces, and submits a 1-page written reflection that has embed artifacts that directly relate, and show exemplary relevance to the STEL Standards listed below (ex. Link to a lesson plan relating to the standards with an explanation, an activity, etc.) (30 points).
    1. The Nature and Characteristics of Technology and Engineering
    2. Core Concepts of Technology and Engineering
    3. Integration of Knowledge, Technologies, and Practices
    4. Impacts of Technology
    5. Influence of Society on Technological Development
    6. Influence of Technology on Human Progress
    7. Design in Technology and Engineering
    8. Applying, Maintaining, and Assessing Technological Products and Systems

30. Total points for 2019-20 application:

Reminders:
The ITEEA STEM School of Excellence designation requires documentation for activities totaling 200 points or more for the academic year 2019-2020.

The ITEEA STEM School of Merit designation requires documentation for activities totaling 170-199 points for the academic year 2019-2020.

Notification of award status will take place by December 15 for applications submitted between May 1, 2020 and December 1, 2020. School banners and certificates for ITEEA STEM School of Excellence and certificates for ITEEA STEM School of Merit will be presented at the 2021 ITEEA Conference in Denver.

Principals are encouraged to participate in the Administrators' Strand at the conference and to receive the award on behalf of their schools; registration is refunded 100% for the first 50 Administrator Strand registrants.

Submission of Application Materials:
I attest that the information submitted in the application for this award is true and correct. I hereby grant permission for digital images submitted in this application to appear in an International Technology and Engineering Educators Association (ITEEA) publication (in print or online) to which copyright will be held, without fee, by the ITEEA. (Enter initials)