

2023–2024 Student Team Submission Requirements

Please submit the following as a single-spaced PDF document that is a written narrative of the team's proposed solution. PowerPoint decks or submissions in presentation format do not meet the requirement. Plagiarism will not be tolerated. The quality of writing will be considered, so review by peers is strongly encouraged.

- **Project Team Background** (up to 2 pages, single-spaced)
 - Form a team of 2–4 students. These students represent the project team and will all consult on the problem.
 - The Project Team Background should include:
 - Project name, team name, and collegiate institution(s)
 - Team mission statement
 - A short biography for each team member. This should include information such as major, level (freshman, sophomore, junior, senior, graduate), and other relevant background information such as experience with building science, future career goals, and formative experiences that shaped each individual's contribution to the Challenge.
 - Diversity statement (minimum 1 paragraph, 5–7 sentences): One of JUMP into STEM's key objectives is to encourage diversity of thought and background in students entering the building science industry. There is a diversity gap in STEM, meaning that certain groups are underrepresented or have been historically excluded from STEM fields. These groups include, but are not limited to, those based on race, ethnicity, and gender—and this gap needs to be addressed. Diversity of thought can be achieved through teams consisting of students from different majors and minors. If there are barriers that affect the racial, ethnic, and/or gender breakdown of your team, please elaborate. The diversity statement is your opportunity to describe your team's diversity of background and thought, both generally and as applicable to your chosen Challenge.
 - The Project Team Background does not count toward the 5-page Project Challenge Submission.
- **Project Challenge Submission** (up to 5 pages, single-spaced)
 - Select one of the three Challenges published for the current competition to address.
 - Investigate the **background** of the Challenge and consider related stakeholders. Stakeholders are those who are affected by the problem, a part of the supply chain, or manufacturing of the technology product(s), as well as those who may have decision-making power and are able to provide solutions (technical or nontechnical solutions, such as policies). For example, you could include stakeholders who have previously experienced environmental pollution or a high energy burden.
 - Write a 1- to 2-paragraph **problem statement**, focusing on a specific aspect of the problem and the stakeholder groups affected by or involved in the problem. The stakeholder groups can be from a specific location, socioeconomic status, age, or demographic (e.g., people living in subsidized housing).
 - Develop and describe a novel **solution** that addresses or solves the specific problem from your problem statement. **The solution must be technical** and also include one or more of the following components, as appropriate: economic, policy, commercialization, codes, standards, and/or other.

- Address the requirements for your selected Challenge as written in the Challenge description. Include graphs, figures, and/or photos. Discuss the feasibility of your solution and how it will impact your stakeholders,
 - Develop a **technology-to-market plan**. A technology-to-market plan describes how the team envisions bringing its idea from concept to installation on real buildings, or integrated into the design of real buildings, and includes a cost/benefit analysis.
 - The cost/benefit analysis does not need to be exhaustive and should include comparing the solution to current or existing technologies or practices. Benefits, such as building energy reductions and improved occupant health or productivity, should be evaluated.
 - The plan should also discuss which key stakeholder(s) should be involved to commercialize the technology and then sell and install the technologies with your target market(s).
 - Perform a **market adoption barrier** analysis. The team should identify at least one key market adoption barrier for implementation and specifically address how the proposed solution will overcome that barrier.
 - Barriers should align with key stakeholder(s) identified by the student team.
 - Include **references**. References will not count toward the 5-page maximum.
- Appendix (optional, no page limit)
 - Teams may wish to add an appendix. This is optional and might not be reviewed by the judges.
 - The appendix has no page limit.

Please submit the following information to the corresponding submission prompts on jumpintostem.org. The abstract and image for Challenge winners and Challenge finalists will be published on the JUMP into STEM website.

- Abstract (up to 250 words)
 - Please include an abstract of your project. The abstract may be displayed on the jumpintostem.org website.
- Image (file size limit: 5 MB; filetype: .jpg)
 - Please submit an image that represents your project. This can be a photo or a figure from your paper. The image may be displayed on jumpintostem.org.

Avoid Plagiarism. If a team includes the work of others without citation, the submission will be disqualified. Plagiarism includes but is not limited to copying and pasting the work of others and paraphrasing published works without citation. Photos and images also require citation. Please consider appropriate style guidelines to avoid plagiarism such as APA, Chicago, MLA, and others.