BD

Submission Template

STEM
STARS

SCIENCE
TECHNOLOGY
ENGINEERING
MATHS

Category

What category is this project being submitted to?		If submitting a project in Poster Research, are you electing to submit a video for the video prize category?	
Product	☐	Yes	☐
Software	☐	No	☐
Research Poster	☐		

*Max of 8 students per team

Student Name	School Year

School Name	School Address
County	Eircode

Project Name

Teacher's Name	Insert Primary Contact if other
Email Address	Phone Number

Are there other submissions from your school?   Yes ☐   No ☐

Is this the first year your school has submitted a project?   Yes ☐   No ☐

Has this project previously won in any national or international STEM competitions?   Yes ☐   No ☐

Project Introduction

All projects should complete this section.

*Up to 1000 words

Section A- Software and Product ONLY
If submitting a Research Poster, move to section B, page 9

Scope & Project Plan

Defining your scope helps set boundaries, goals and deadlines without delay or overwork.

POINTERS

- How do you see this idea being applied to the medical device industry or areas of healthcare? Defining your project scope isn't a one-person job. You should align with important stakeholders and ensure the team is all on the same page. What do you hope to achieve at the end of the project?

- Work Plan: What is your project plan.eg. interviews, data analysis, writing code, 3-d print components, build a prototype, do user research etc.

- Define your problem statement or challenge.

*Up to 1000 words

Research & Development

You've identified your problem statement, its now time for research and development.

POINTERS

Knowledge Gathering

- Reference your reading materials

- Did you complete surveys, what was the sample size?

- Did you conduct interviews with any subject matter experts?

- Is there anything similar to your idea already available?

- Will you use quantitative (numbers & statistics) or qualitative (words & meanings) methods?

- Consider interviewing medical experts or teachers in your school.

- Any claims made in the video or project submission should be referenced in this section.

Evolution of the project

- What was your starting hypothesis?

- Were there many iterations?

- Were there any failures?

- Aim for clear visualisation of your process

- Graphs, flowcharts, wireframes, illustrations or similar that demonstrate the development of your idea

Research & Development

Supplementary files that support your research & development can be submitted with the completed submission template.

*No word limit

Results & Conclusions

*Up to 1000 words

Reference List
*No word limit

Checklist for Software & Product submissions

☐ **Completed submission template**

    ☐ School Details

    ☐ Project Introduction

    ☐ Scope & Project Plan

    ☐ Research & Development

    ☐ Results & Conclusions

☐ **Supplementary information**

☐ **Video (5 mins max) in appropriate file format**

Section B- Research Poster ONLY

Poster Abstract: An abstract is a concise summary of your research project.

POINTERS

A general guide to an abstract is as follows:

- Title: A clear and descriptive title that reflects the content of the poster.

- Introduction/Background:A brief overview of the research problem or question, providing context for the study.

- Objectives: The main goals or hypotheses of the research.

- Methods: A summary of the methodology used in the research, including any experimental procedures, data collection, or analysis techniques.

- Results: A brief presentation of the key findings, even if they are preliminary.

- Conclusion: A summary of the implications or significance of the results, and how they contribute to the field.

- Future work: How would you pursue this work in the future?

*300 words (including title).

Scope & Project Plan

Defining your scope helps set boundaries, goals and deadlines without delay or overwork.

*Up to 1000 words

Research & Development

You've identified your problem statement, its now time for research and development.

POINTERS

Knowledge Gathering

- Reference your reading materials

- Did you complete surveys, what was the sample size?

- Did you conduct interviews with any subject matter experts?

- Is there anything similar to your idea already available?

- Will you use quantitative (numbers & statistics) or qualitative (words & meanings) methods?

- Any claims made in the research poster or video should be referenced in this section.

Evolution of the project

- What was your starting hypothesis?

- Did your hypothesis change? How and why?

- Aim for clear visualisation of your process

- Graphs, flowcharts, wireframes, illustrations or similar that demonstrate the development of your idea

Research & Development

Supplementary files that support your research & development can be submitted with the completed submission template.

*No word limit

*Reference List
*No word limit

Checklist for Research Poster

☐ **Completed submission template**

    ☐ School Details

    ☐ Project Introduction

    ☐ Scope & Project Plan

    ☐ Research & Development

    ☐ Completed Research Poster Template

☐ **Supplementary information where applicable**

☐ **Video (5 mins max) in appropriate file format.**
(Optional extra for Research Poster category)

Video Submission

Your video presentation should tell your story from inspiration to completion and should be balanced with the right amount of information.

This is a guide outlining the video requirements for your BD STEM Stars project:

Video Length	The video should not exceed 5 minutes in length and the key aspects of your projects should be covered within this time frame. Exceeding the allotted time will incur marking penalties.
Content	Choosing which approach suits your needs best, focus on either demonstrating your solution to the suggested issue or provide details and descriptions that guide the audience on your project journey.
Audio-Visual	Use a high-quality microphone if possible and ensure sound levels are consistent across the video presentation. Recording on a new Android or IPhone can produce good results as they tend to have good cameras. Also, a simple tripod goes a long way in recording the video to ensure the clips are steady.
Video Format	Videos should be submitted using a commonly used video format such as MP4, AVI or MOV.
Communication	Endeavour for clear communication, succinct points and consider amplifying your message using charts, photos, graphs or your prototype in action if you have one. Your video should have a logical story with a conclusion that looks to the future.

Additional Extras

These may help towards the communication of your project to the judging panel either on the day or in the submission.	✔ Posters ✔ Gantt chart/ Timeline ✔ Wireframes / flowcharts/ illustrations