

## IEEE MTT-Sat Challenge – Project Description

# Project Title

---

*This template applies as guideline to project proposals under IEEE MTT-Sat Challenge. Please always use the form published at the webpage with the Call for Proposals. We try to keep the template the same during the whole duration of the IEEE MTT-Sat Challenge. Please be aware that the focus of the description varies between different calls. This form must be compiled into a PDF and uploaded via the announced webpage by the deadline. A proposal consists of maximum two parts: (I) This form and (II) an optional appendix, e. g. for quotes and detailed drawings. Proposals and appendices must be submitted in English. Your project description (sections 1 to 3 of this form) may not exceed the length specified in the Call for Proposals. Prior to upload, please delete all hints (blue text) and check that all red text is replaced by black text. Font size, face and line spacing must not be changed. Please do not change the template and keep the sections consistent. If your proposal contains an empty section, please write “not applicable” instead of deleting the section.*

*In case of any questions, do not hesitate to contact IEEE MTT-Sat Challenge officials under [satchallenge@mtt.org](mailto:satchallenge@mtt.org).*

### 1 Abstract

*Please write a short abstract of your project with ~200 words. This abstract together with your contact details (from section 6.1.2) will be published in IEEE MTT-Sat Challenge reports and on the webpage/in social media.*

Add text here

### 2 Project Description

*Please make clear in which context you situate your own research and in what areas you intend to make a unique, innovative, promising contribution. This description must be concise and understandable without referring to additional literature. Please list all cited publications in your bibliography under section 4. Note that reviewers are not required to read any of the works you cite.*

Add text here

#### 2.1 State of the Art

*Please explain the state of the art in its direct relationship to your project.*

Add text here

#### 2.2 Preliminary Experience

*Please explain your preliminary work in its direct relationship to your project. When you are starting a completely new project, please state, if you have already experience with similar projects, e.g. in the frame of lectures or seminars. The importance of this section depends on the phase of the challenge. In early phases this section has minor importance. For later phases you should be able to provide preliminary experience.*

Add text here

#### 2.3 Project-Related Publications

*Please list your most significant publications (maximum of 5) that relate directly to the proposed project and document your preliminary work. The importance of this section depends on the phase of the challenge. In early phases this section has minor importance.*

- Publication 1, IEEE SHaRC Conference, 2019
- Publication 2, IEEE Microwave and Components Letters, 2019
- ...

### 3 Objectives and Work Program

#### 3.1 Objectives

*Please give a concise description of your project’s program and objectives. Please divide into global goals for the ideas over several phases as well as the objectives for this call.*

Add text here

### **3.2 Project Schedule**

*Please give a detailed account of the steps planned during the proposed period. If possible, please provide a Gantt chart for the project. Please divide into global schedule over several phases as well as the schedule for this call.*

Add text here

### **3.3 Work Program**

*The quality of the work program is critical to the success of the proposal. Please provide a detailed description of the methods that you plan to use in the project: What is already available? What needs to be developed? What assistance is needed from outside your team?*

Add text here

### **3.4 Risk Assessment**

*Please provide a detailed description of the risk assessment for the project.*

Add text here

### **3.5 Other Information**

*Please use this section for any additional information you feel is relevant which has not been provided elsewhere.*

Add text here/Not applicable

## **4 Bibliography**

*In this bibliography, list only the works you cite in your presentation of the state of the art, the research objectives, and the work program. Non-published works must be included with the proposal. Please use IEEE style for references.*

Add text here

## 5 Requested Funds

*Explain each item for funding, please add a quote for requests to the attachment if applicable. The maximum amount funded by IEEE MTT-Sat Challenge is published in the Call for Proposals. The items below are place holders which must be replaced according to the Call for Proposals.*

### 5.1 Equipment, Software and Consumables

- |    |  |        |
|----|--|--------|
| 1) | Software License A   | \$ 500 |
|    | The software license A is required for the simulation of the satellite in space. ... |        |

### 5.2 Travel Expenses

- |    |  |        |
|----|--|--------|
| 1) | Visit of conference A for two students | \$ 500 |
|----|--|--------|

### 5.3 Expenses for External Laboratory

- |    |   |          |
|----|---|----------|
| 1) | Fabrication of prototype  | \$ 1,500 |
|    | Fabrication in a mechanical workshop for design A in working package 1b |          |

## 6 Composition of the Project Group

### 6.1 Team Description

*Please add here information on the team. The information provided will be published by the IEEE MTT-Sat Competition, e.g. in reports or on the competition's webpage upon acceptance of the proposal.*

#### 6.1.1 Team's Name

University of X going to Space

#### 6.1.2 Team's Contact Information

*Please provide an e-mail address and a webpage (if available) where information on the team and activities can be found. A webpage is not a requirement for the first phases. Teams should plan outreach activities for upcoming phases.*

team@going2space.edu

<https://going2space.edu>

#### 6.1.3 Team's Mission Statement

*Please provide a short description of the team, its goals and philosophy.*

Add text here

### 6.2 Faculty Coordinator

*Each team shall have a Faculty Coordinator, which will be considered as representative for the purpose of on-going communications and information regarding the regulations and requirements of the MTT-Sat Challenge. Please provide full address information.*

Jane Doe, PhD

Earth's University, Department of Electrical Engineering

1000 Universe Street, 01234 Springfield, MA, U.S.A.

Jane.doe@UoE.edu

### 6.3 Team Members

*List all individuals who will work on the project. State each person's name, academic title, student or employment status, IEEE membership. For external advisors, please give full address information and attach a Letter of Support in the appendix. By submitting the proposal, you agree that the names and affiliations of the team members given in this section can be published by the IEEE MTT-Sat Competition, e.g. in reports or on the competition's webpage.*

#### 6.3.1 Undergraduate Students (Bachelor/Master)

- John Doe, Bachelor Student  
Earth's University, Electrical Engineering
- Jane Doe, BSc, Master Student  
Earth's University, Mechanical Engineering, IEEE Student Member
- ...

#### 6.3.2 Graduate Students (PhD-Students)

- Jane Doe, MSc  
Earth's University, Electrical Engineering, IEEE Student Member
- ...

#### 6.3.3 Faculty Members (Post-Doc, Professors)

- Jane Doe, PhD  
Earth's University, Electrical Engineering, IEEE Senior Member
- Jane Doe, Prof.  
Earth's University, Electrical Engineering, IEEE Fellow
- ...

#### 6.4 External Advisors

- John Doe, Chief Spaceflight Officer  
SpaceY, 1506 A Street, 01199 Boston, MA, U.S.A.  
john.doe@spacey.org
- .....

## **7 Equipment & Incentives**

*List larger instruments and Incentives that will be available to you for the project*

Add text here/Not applicable