# Example Proposal Letter

Dear \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,

We would like to propose a project to send a telescope into space on board a telescope. The aim of the mission is to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Previous similar missions are\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. This mission will advance on these by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

## Instruments

The instruments on board will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . They will allow the science goals to be met by

## Mirror

The main mirror of the telescope will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . This will allow the instruments to achieve resolutions from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

## Cooling System

The cooling systems on board will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, to achieve a temperature of \_\_\_\_\_\_\_\_\_\_ Kelvin, the minimum operating temperature required by the instruments is \_\_\_\_\_\_\_\_\_\_ Kelvin.Mass budget

The total mass of the satellite will be \_\_\_\_\_\_\_\_\_\_\_\_ . The breakdown from the individual components is given below

|  |  |
| --- | --- |
| Mass budget | |
| Satellite Structure: |  |
| Mirror: |  |
| Cooling System: |  |
| Instruments: |  |
| Total Satellite mass: |  |

## Orbit Selection

The satellite will observe from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , at a distance of \_\_\_\_\_\_\_\_\_\_\_\_ from Earth. The orbital period will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , and the maximum fuel lifetime for maintaining such an orbit is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The mission duration will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_ years

## Launch vehicle and site

To reach orbit, the satellite will be launched on a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , operated by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , from \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ . The maximum capacity of this launch vehicle is \_\_\_\_\_\_\_\_\_\_ ,

## Budget

The total cost of the mission will be \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ .

|  |  |
| --- | --- |
| Cost | |
| Satellite Structure: |  |
| Mirror: |  |
| Cooling System: |  |
| Instruments: |  |
| Development cost: |  |
| Launch cost: |  |
| Ground control cost: |  |
| Operations cost: |  |
| Total mission cost: |  |

Kind Regards,

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_