

SCT

SECRETARÍA DE  
COMUNICACIONES  
Y TRANSPORTES



AEM

AGENCIA  
ESPACIAL  
MEXICANA

# FREQUENT ASKED QUESTIONS

MISIONES ESPACIALES MÉXICO  
2016

ACEPTA EL RETO  
PARA MOVER A MÉXICO  
HACIA EL ESPACIO

“OPORTUNIDAD DE ESTANCIAS EN NASA  
(THE NATIONAL AERONAUTICS AND SPACE ADMINISTRATION)  
PARA ESTUDIANTES MEXICANOS DE INSTITUCIONES DE EDUCACIÓN SUPERIOR”

**I HAVE A DOUBT ABOUT THE FIRST PHASE OF THE CONTEST. THE DESIGN IN THIS FIRST PHASE HAS TO BE MADE IN THE SOFTWARE "ONSHAPE" ALSO? OR IT CAN BE IN ANY OTHER CAD SOFTWARE OR JUST CONEPTUAL SKTECHES OF THE IDEA?**

At the first phase of the contest, you just have to upload a preliminary design, the software "OnShape" it's gonna be available just for the three finalist.

**I HAVE SOME QUESTIONS ABOUT THE DETAILS OF SYSTEMS. WE'D LIKE TO KNOW THE WEIGHT OR THE MATERIAL IS MADE OF THE CATAPULT ANTENNA AND CATAPULT CLAMP.**

The weight and material of the antenna clamp is up to your team. The drawing of the clamp is a guideline of what a clamp could be. I'd like teams to take a look at the basic functionality shown in the drawing, and design something that they think could be a realistic mounting design. As for the domed antenna, exact numbers are not yet available for the antenna, the antenna mass budget is 10 lbs (4.5kg) with a relatively low center of gravity.

**CAN WE SET THE CATAPULT CLAMP IN A CERTAIN PLACE ON THE ROOF OR HAS TO BE INSTALLED ANYWHERE ?**

If placing a constraint on where the clamp is placed on a roof facilitates a better design then state the constraint show why it's a good idea. There are currently no constraints on where on the roof. We were originally thinking the edge is easier to access, but we are open to ideas.

**BESIDES THE EXAMPLE BASE THAT AEM GIVE US HAVE NO MOTION, DO WE HAVE THE LIBERTY TO MAKE THE BASE ROTATES AND ADD ELECTRONICS SYSTEMS?**

Rotating and modifying the configuration of the clamp is encouraged if you believe it provides for a better design. The overall size of the antenna will need to be maintained. The interface is negotiable (How it slides in).

THE CONVOCATORY SAYS THE NUMBER OF THE TEAM MEMBERS IS THREE BUT IN THE RECORD FORMAT WE CAN ENROLL FOUR, SO AT THE END HOW MANY MEMBERS COULD BE?

The maximum number of participants is three, so please ignore the space for a fourth member in the format.

IN MY CASE, LAST SEMESTER I DIDN'T ATTEND TO SCHOOL BECAUSE I SPENT THAT TIME IN USA TAKING SOME ENGLISH CLASSES, SO MY UNIVERSITY ID HAS NO EXPIRATION DATE FOR THIS SEMESTER, BUT I AM COMING BACK TO SCHOOL THIS NEXT SEMESTER. CAN I APPLY? I MEAN, THE REGISTRATION PERIOD IN MY SCHOOL IS ABOUT AUGUST 10 OR SO.

You can send any other document that states you are still a student in your institution. In that case please specify the date of issue.