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| 2022-04-27 |
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# Questionnaire for preliminary assessment of possible Swedish student satellite programme

Background

Sweden has long tradition of space activities, including development of national satellites for research. Currently, Esrange Space Center of SSC is developing a new capability of launching small satellites into orbit which would offer new and unique opportunities of access to space for both space research and education.

In this context, SNSA wishes to investigate interest within the space community with respect to student satellites launched from Esrange. If implemented, these satellites are intended to be developed by student teams at Swedish universities at bachelor, master and/or PhD level. The intended satellite size is up to 3-Unit CubeSat.

SNSA will be grateful for your responses to the questions below. This will give us an important input when assessing possibilities for establishment of a Swedish student satellite programme. The questionnaire is targeted mainly towards senior staff of universities involved in teaching and supervision of students, but responses from e.g. existing student teams or students that have participated in the student satellite activities are also welcome.

Please note that no decision has been taken on the establishment of a Swedish student satellite programme. Such a decision will depend on the outcome of the assessment by SNSA and availability of necessary funds.

Questions below can be answered is Swedish or English. If there are several alternatives (Yes/No/Do not know), please delete ones that are not relevant. Comments to answers are strongly encouraged – we will be glad to receive as much feedback and information as possible.

The deadline for submitting your answer is May 25, 2022. Please send your answer as an attachment to dannenberg@snsa.se .

In the subject line (“ämne”) of your email, please indicate “student satellites”.
The name of your file with answers to the questions should be as follows:
Last name\_First name\_Your organisation.

The text above can be removed from the file with your answers.

Questions

1. First name and last name of the responder:

Title:

Affiliation:

E-mail:

2. Is your university/institution/department interested in developing student satellites?

Yes

No

Do not know

Please feel free to add any comment:

3. If Yes, what is your main motivation for engaging in a student satellite programme?

Comment:

4. What scientific or technical questions would your students address (i.e. are there any science och technology fields of particular relevance for your university/institution/department)?

Please give some examples if you have any ideas. If you do not have any ideas at this stage, you can ignore the question.

Comment:

5. Do you have any previous experience in supervising students who are developing a student satellite?

Yes

No

Please feel free to add any comment:

6. Does your university/institution/department have enough qualified staff and students for a student satellite project, including all responsibilities required (project leader, system, mechanical, software engineers etc)? An estimated minimum number would be around 10 students.

Yes

No

Please feel free to add any comment:

7. Does your university/institution/department have necessary laboratory and testing resources for development of a student satellite?

Yes

No

Please feel free to add any comment:

8. Would you prefer a student satellite programme with considerable technical support from SNSA (or a contactor of SNSA), which includes supervision, reviews, monitoring milestones, frequent interactions with the student team? NB Such a support still requires local supervision by senior staff at the university/institution/department.

Yes

No

Please feel free to add any comment:

9. Would you prefer a student satellite programme where the main responsibility is given to the university/institution/department, with SNSA providing final review and launch opportunity when then student satellite is ready?

Yes

No

Please feel free to add any comment:

10. If you have not selected “Yes” to any of the previous two questions – do you have any other suggestions as to the organisation of the programme?

Comment:

11. It may take 3-5 (or more) years to develop a student satellite which means that some students will graduate during the project and new students are to be introduced. Do you expect a continuous “flow” of students at your university/institution/department that would enable transfer of various functions to new students and successful finalisations of a satellite project?

Yes

No

Please feel free to add any comment:

12. Will your university/institution/department provide funding for components, platform etc. for a student satellite?

Yes

No, we would need financial support from e.g. SNSA

Please feel free to add any comment:

13. Have you/your students been involved in any other educational programmes that involve development of space or suborbital hardware? If Yes, we would appreciate if your wished to share some feedback and reflections with us.

Yes

No

Please feel free to add any comment:

14. Please feel free to add any other inputs or comments not covered above.

The file with your answers should be saved with a name
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Many thanks in advance for your contribution!