

Short presentation of an expertise profile for the 5th call Space in FP7

NB Composites

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(SME)

Poland



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Draft Call Topics that we are interested in

Strengthening the foundations of Space science and technology (SSF)

- ***Research to support space transportation and key technologies***
 - Key technologies for in-space activities

Presentation of **NB Composites**

- 10 years experience in working with composite structures,
 - continued cooperation with main Polish aeronautical and military institutes:
 - Institute of Aviation in Warsaw;
 - Air Force Institute of Technology;
 - Warsaw University of Technology;
 - Wroclaw University of Technology;
 - Military University of Technology in Warsaw.
- NB Composites is responsible for designing and manufacturing composites structures.
 - Company is working closely with many specialist and institutes from different topics (e.g. automatics, CFD, strength analysis...)

Presentation of **NB Composites**

- The Team – most of employees have aeronautical background:
 - Faculty of Power and Aeronautical Engineering, Warsaw University of Technology;
 - Gliding pilot licenses.
- Company is using very precise, 3-axis numerical milling machine.
- Experienced in international cooperation:
 - ESA;
 - CERN;
 - Complutense University in Madrid;

Competencies

➤ Reference projects:

- ARISS antennas for ISS
 - design and manufacturing of composite structure of the antennas, project realised in cooperation with Wroclaw University of Technology;
- Satellite projects (in cooperation with our partners):
 - YES 2 (mechanical configuration, thermal analysis)
 - SSETI family (Express, ESEO, ESMO – controlling, mechanical configuration, thermal analysis)
 - PW-Sat (deorbitation system, mechanical configuration, on-board computer)
 - BRITE-PL (on-board computer, communication)
- High-altitude projects
 - SpaceFish (mechanical configuration, CFD, autopilot)
 - SCOPE (mechanical configuration)

Intended Role in a Consortium

➤ Partner

➤ Designing and manufacturing composite structures

➤ Numerical analysis:

- CFD;
- Thermal;
- Strength, etc.

➤ Manufacturing models for:

- tests:
 - in wind tunnel,
 - Vibration,
 - Thermal, etc.
- Exhibition.

Contact and further information

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