

2016 AE Fellow

FLORA GODOR

Citizenship: Austria

Proposed Program: Materials Science at Montanuniversitaet Leoben, Austria

Ms. Godor is researching the development of a new high-temperature material for application in advanced low-emission aircraft engines. To meet the demands of the aircraft industry to reduce fuel consumption and harmful emissions, new innovative materials are required. Structural materials need to be low density and able to withstand high temperature and stress while being cost effective to produce. She is investigating a multiphase iron alloy. Her fellowship will assist in her wish to attend international scientific conferences and participate in international collaborative research groups.

Ms. Godor has been involved in the organization of two international scientific conferences. In her spare time she enjoys participating in sports, dancing and traveling.



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LUISA DOS SANTOS BUINHAS

Citizenship: Portugal

Proposed Program: Aerospace Engineering at the Bundeswehr University

Ms. dos Santos Buinhas will use her award within the IRASSI program (InfraRed Astronomy Satellite Swarm Interferometry). This is a feasibility study for a space-based telescope mission. It would be located 1.5 million km from the Earth at the Sun-Earth Lagrange Point 2 (L2) and would be composed of a constellation of five telescopes.

The aim of the proposed mission is to better understand star and thus planet formation, including Earth-like planets. For the program to be successful, distances between these five telescopes must be known with extreme precision at all times. The goal of Ms. dos Santos Buinhas' research is to understand possible formation geometries and develop essential spacecraft control strategies.

Ms. dos Santos Buinhas has worked as a volunteer in Thailand with endangered primates and as an English teacher in Cambodia. She plays the piano and is an outdoor enthusiast.



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