PhD position

Granular Rheology in Space (GRIS)

**environment**

**Institute for Multiscale Simulation (MSS)**
Erlangen-Nürnberg University FAU, Erlangen, Germany

At MSS, we investigate the multiscale physics of particulate systems. The international research team offers an interdisciplinary environment, working numerically, theoretically and experimentally.

**topic**

The success of future missions to the Moon requires understanding the mechanics of Lunar sand, called *regolith*. But the Lunar environment poses many challenges: low gravity, vacuum, sharp and abrasive soil, electrostatic charging...

In this project, we will study the flow-behavior of regolith, how it is influenced by the Lunar environment, and how to develop new technologies for the Moon.

**profile**

- master’s degree in physics, engineering or related
- interest and experience in experimental physics
- willingness to participate in low-gravity campaigns (parabolic flights, drop tower…)
- prior experience with gravity-related experiment appreciated
- excellent English skills, writing and speaking

**offer**

<table>
<thead>
<tr>
<th>Starting date</th>
<th>September 1, 2023</th>
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<tr>
<td>Contract duration</td>
<td>36 months</td>
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<tr>
<td>Work time</td>
<td>75% of full-time position</td>
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<td>Salary groupe</td>
<td>E13 TV-L, 75%</td>
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<tr>
<td>Application deadline</td>
<td>July 1, 2023</td>
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</tbody>
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**application**

Send questions and application (CV+cover letter) to:
Dr. Olfa D'Angelo
olfa.dangelo@fau.de