2 PhD/Postdoc positions (experiment + simulation)

laser based additive manufacturing in space

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

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

topic We make laser-based additive manufacturing of metals fit for future extraterrestrial missions in low gravity. In the interplay between experiment and simulation we will investigate how the 3D printing process depends on gravity. The project is funded by the German Aerospace Center (DLR) and includes the opportunity to take part in parabolic flight campaigns.

profile You are highly motivated and deeply committed to research. You are able to work independently and as part of a team. You are equipped with an analytical and critical mind-set and you communicate clearly and concisely.

- master’s degree in physics, engineering or related
- background in computational physics appreciated (simulation track)
- interest and experience in experimental physics appreciated (experimental track)
- willingness to participate in low-gravity campaigns (e.g. parabolic flights)
- excellent speaking and writing skills in English

offer

starting date	March 1, 2024
limitation	36 months
application deadline	January 14, 2024

application Send questions and your application (single pdf including cover letter, CV and, if applicable, a list of your publications) to
Prof. Thorsten Pöschel, mss-recruitment@fau.de

FAU Friedrich-Alexander-Universität Erlangen-Nürnberg

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