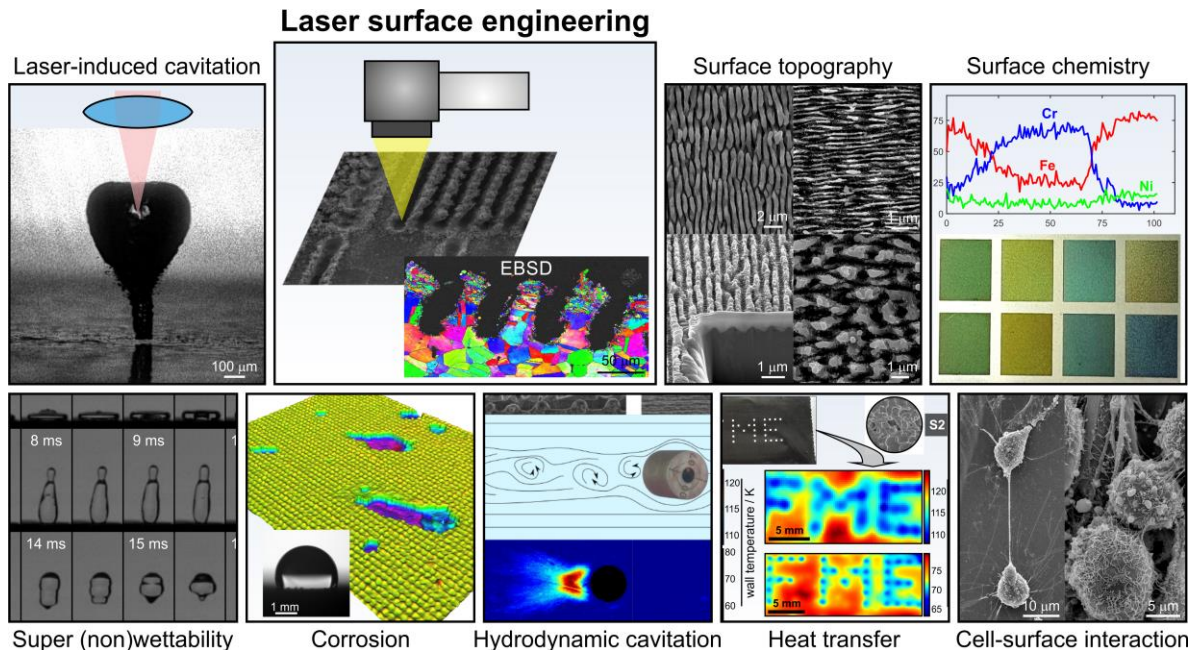


## Junior Researcher in the Field of Laser Surface Engineering

A **four-year, full-time** PhD position in the Laboratory for Laser Techniques ([LASTEH](#)) at the Faculty of Mechanical Engineering, [University of Ljubljana](#), Slovenia starts on **October 1<sup>st</sup> 2021**.



We are looking for a PhD student to strengthen our research team in the field of **laser surface engineering**. The research is related to functionalization of surfaces by laser micro and nano processing. The functionalized surfaces we will test in the following engineering applications: (i) controlling cavitation in fluid flows; (ii) enhancing heat transfer; (iii) controlling corrosion and development of biocompatible materials; and (iv) in tribological applications. We expect that the developed knowledge will result in smart surfaces that will open a diversity of new possibilities, including development of new sensors and smart biocompatible materials.

The position is funded by the Slovenian Research Agency within the [Young researchers program](#). The PhD study will be done at the [Faculty of Mechanical Engineering](#), under supervision of [Assoc. Prof. Dr. Peter Gregorčič](#). The candidate has to show an average grade for all examinations and coursework at bachelor's and master's degree (together with the assessment of diploma and master thesis) of at least 8,00 (out of 10). The age of the candidate should not exceed 28 years. The raise of the age limit applies in case of parental care leave.

### Your profile:

- MSc degree (finished until Sep 2021), preferably in Applied Physics, Photonics, or (Mechanical or Materials or Electrical) Engineering.
- Ability to work in a laboratory environment and undertake experimental research.
- English language proficiency.
- Good knowledge of fundamental aspects of laser-material processing and applied knowledge in laser micromachining and/or experience in using a range of technologies/techniques for surface characterisation (SEM, EDX, XPS, etc) would be an advantage.

Please submit your CV and motivation letter no later than **May 31 2021** to [peter.gregorcic@fs.uni-lj.si](mailto:peter.gregorcic@fs.uni-lj.si).