One (1) PhD candidate position in the project

METAMORPHA

Made-to-measure micromachining with laser beams tailored in amplitude and phase

- **Action: HORIZON-CL4-2021-TWIN-TRANSITION-01-03: Laser-based technologies for green manufacturing (Photonics - Made in Europe Partnerships) (RIA)**

The Institute of Electronic Structure and Laser of the Foundation for Research and Technology Hellas (IESL-FORTH), in the framework of the project METAMORPHA (P.I. Dr Emmanuel Stratakis, Co-PI Dr. George Tsibidis) funded under EU- HORIZON Research and Innovation Action (HORIZON-CL4-2021-TWIN-TRANSITION-01-03, 'Laser-based technologies for green manufacturing -Photonics - Made in Europe Partnerships)' (Project number: 101057457), is seeking to recruit one PhD candidate.

Job Description

Micro- and nano-structuring of materials with ultrashort laser pulses has proven its significance and contribution to major advances in science, technology and industry. The project will include the fabrication of nano/micro-structured topographies via the employment of ultrashort pulsed lasers tailored in shape and amplitude. The PhD candidate will have an excellent opportunity to develop skills in a multidisciplinary field of Physics (Lasers, Optics, Plasma Physics, Material processing, Mechanics) and engineering. The project will be realized in collaboration with partners in the consortium and the team of the Ultrafast Laser Micro- and Nano- Processing group (ULMNP) that has a strong and renowned expertise in laser-based processing.

Required qualifications

- Bachelor's degree (B.Sc.) in Physics or Materials science (20%)
- Master's in physics or related subjects (30%)
- Experimental laboratory experience in materials processing, optics and characterization techniques (30%)
- Relevant publications (20%)
- Fluent in English, both in written and other forms (10%)

Contact: Dr Emmanuel Stratakis (stratak@iesl.forth.gr), Dr George Tsibidis (tsibidis@iesl.forth.gr)

Location: IESL-FORTH, Heraklion Crete GREECE

Start Date (earliest): 1/2/2024

Salary: 900 €

Project Duration: 3 years