

Open PhD positions for TEAM (Training Experts in Light-Based Additive Manufacturing) a Marie Skłodowska-Curie Actions (MSCA) Doctoral Network

Multi-Temperature Lithography

The TEAM project is a multinational European Horizon MSCA doctoral network. In the last 20 years Additive Manufacturing, also known as 3D printing, has emerged and is becoming more and more popular. VAT based 3D Printing is based on photopolymerizable formulations that can be printed with very high resolutions.

The main aim of this doctoral network is to provide green monomers and photoinitiators to the consortium and test them in light based additive manufacturing.

In detail, this PhD project will focus on resins for multi-temperature lithography that allows a local change of thermomechanical properties. Liquide crystalline monomers should be prepared and can be cured in the liquid crystalline phase giving semicrystalline materials or at higher temperatures in the isotropic phase giving amorphous polymers.

Starting date: from 1.2.2027 until 1.12. 2027

Duration: 3 years

Employment: 40 hours per week

Salary:

Living Allowance: Base amount of around €4,400

Mobility Allowance: A fixed €710 per month to support personal mobility expenses.

Family Allowance: An additional €660 per month if the candidate has a recognized family/dependent status at the time of recruitment.

Employment criteria: Completed diploma or master's degree in the field of Chemistry or equivalent university studies

Qualification criteria: In-depth knowledge of the synthesis and characterization of organic compounds and in the field of macromolecular chemistry. Knowledge in the field of photopolymerization is an advantage. We expect good communication and team skills. For the supervision of students in laboratory exercises and bachelor theses sufficient knowledge of the English or German language is required.

Background information:

www.ias.tuwien.ac.at/research-units/mc/polymer-chemistry-and-technology/

For further information please don't hesitate to contact:

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