

MSc Internship Project

Location: VU Campus, Amsterdam

Start: Summer 2023 (flexible)

Duration: 3-9 months (flexible)



Micro 3D Printing Research MSc

About us

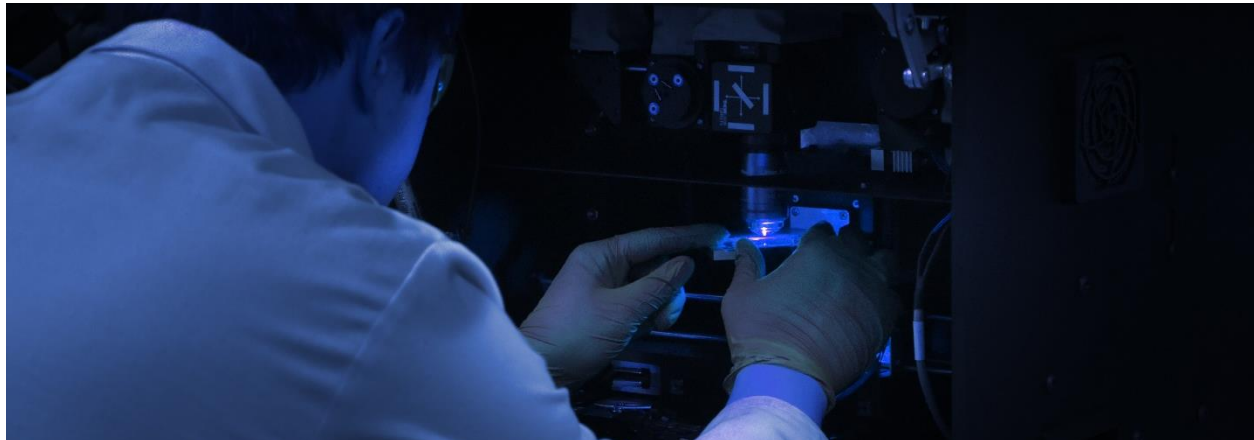
Photosynthetic is a deep-tech startup (spin-off of CWI) developing a novel micro- and nanoscale 3D printing method that is flexible enough for prototyping but also fast enough for production applications. We believe that this combination, made possible by our novel and patented approach, provides a never-before-seen solution for a wide range of applications: from custom but reproducible membranes for medical instruments to MEMS-devices to 3D light paths inside of logic chips.

The project

In this process we need to understand the limitations of our micro fabrication process, material properties of the prints, and their behavior in the final applications. After initially learning how to conduct prints, you'll quickly move towards independent R&D best fitted to your field of interest and expertise. Your work will contribute to advancing all fields that utilize microfluidic chips and bio-scaffolds, from healthcare to pharma, and bring them one step closer to unlocking their life-changing benefits on a global scale.

What we offer

You will be joining a small but ambitious, young and interdisciplinary team based on the VU Campus in Amsterdam. By being a small team, we leverage the informal start-up dynamic and mindset. No week will be the same, nor do we expect it to be. You are welcome to take advantage of this in terms of flexible working hours, flexible learning opportunities and responsibilities. We will be growing the company and aim to provide you with many opportunities to grow with us too.



About you

You're a passionate and driven MSc student looking to make a real impact on the world. You work well independently, can grasp chemical and mechanical concepts quickly, and are diligent in the tasks you undertake. What's most important here is your ability to learn, but especially your **ability to think critically, independently, and thoroughly in a solution-oriented manner**. Prior experience or exposure to various technologies explained below are preferred, but we can work around these too. After all, this is about your growth as well!

Basic / preferred qualifications

- Currently enrolled in a Dutch / European university's **master's program** or other advanced technical studies in a relevant program such as Applied / Technical Physics or Applied / Technical Chemistry
- Hands-on general lab experience:
 - Microscopy (optical/SEM)
 - Other tools (spectroscopy, coating)
 - Working with chemicals
- Basic mechanical engineering/prototyping (CAD, 3D printing, laser cutting)
- Proficiency designing in CAD software, or programming in Python, or both
- Ability to work independently, yet eager to collaborate with colleagues from various fields

We don't expect applicants to have all the technical qualifications above. If you have one or two and the others simply pique your interest, we consider you a worthy candidate.

Details

Timeline: The project starts anywhere from July 2023 to September 2022, lasting from 3 to 9 months (up to you).

Compensation: Standard internship compensation

Location: Amsterdam. Eindhoven can be discussed as a possibility if you prefer.

Contact us

hello@photosynthetic.nl

Apply here

photosynthetic.nl/careers