

BSc Internship Project

Location: VU Campus, Amsterdam

Start: Summer 2023 (flexible)

Duration: 3-9 months (flexible)



Micro 3D Printing Research BSc

About us

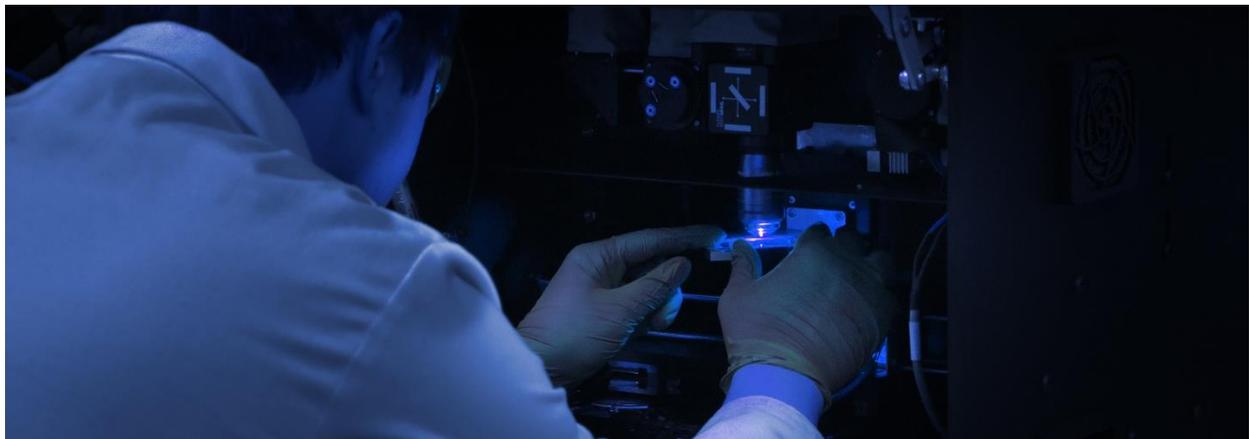
Photosynthetic is a deep-tech startup (spin-off of CWI) developing a novel micro- and nanoscale 3D printing method that is flexible enough for prototyping but also fast enough for production applications. We believe that this combination, made possible by our novel and patented approach, provides a never-before-seen 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

This project is about mastering the use of our instrument to explore unique prints in the fields of microfluidic and organ-on-chip technologies. These will be used by our academic partners to further their research. You'll be designing, 3D-printing, processing and characterizing various elements of microfluidic chips and bio-scaffolds, both with the potential to radically improve the world. At Photosynthetic, besides facing complex and ever-changing daily challenges through your learnings and the various prints we decide to undertake, you will directly be contributing to advancing the world in a multitude of scientific fields (more details to be shared further in the interview process).

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 BSc 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 and willingness to learn**. 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 or HBO **bachelor'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, programming in Python
- 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

Contact us

hello@photosynthetic.nl

Apply here

photosynthetic.nl/careers