|  |  |  |
| --- | --- | --- |
| Name | : | Josia Pool |
| Title | : | BSc |
| Place of residence | : | Almere-Stad, Netherlands |
| Date of birth | : | June 18th 1996 |
| Nationality | : | Dutch |

**Profile/Ambition**

My name is Josia Pool, I graduated in September 2019 from the Hogeschool Utrecht with a bachelors in Chemistry specializing in Research and Development. I am calm, studious, resourceful and have a lot of interest in chemistry and related fields, especially biotechnology which is the field I would like to work in the future. I love working with powerful analysis techniques and machines and always handle these with care. A clean working environment, safety and accuracy are very important to me. Whenever I am more comfortable with my work, I always try to find ways to work more efficiently. This makes me able to work on multiple experiments at the same time. I am comfortable working both by myself and in a team. At last I am resistant to stress and work well under pressure.

**Educations**

Sept. 2021 - Current **MSc Biotechnology – Wageningen University and Research**

Sept. 2015 - Sept. 2019 **HBO Chemistry R&D - Hogeschool Utrecht – Graduated**

Sept. 2018 - Jan. 2019 **Minor Food & Pharma - Hogeschool Utrecht**

Sept. 2014 - Okt. 2014 **Information engineering - Windesheim Flevoland, Almere**

Sept. 2011 - Jun. 2014 **Havo - Helen Parkhurst, Almere - Graduated (N&T+N&G)**

Sept. 2008 - Jun. 2011 **VWO Bèta - Helen Parkhurst, Almere**

**Certificates**

Jun 2020 - **Industrial Biotechnology – Coursera – By University of Manchester**

# Work experience

Feb. 2020 – Aug. 2021 **Synthesis Lab Technician – Pepscan, Lelystad**

Pepscan provides a number of peptide-related services, including custom peptide synthesis. My task mostly consisted of keeping the SYRO I&II machines, where peptide libraries containing a maximum of 576 peptides are synthesized parallel to each other running, to ensure that the deadline for the peptide orders were met. I also performed cleavage and lyophilization of the peptides. Peptides were analyzed using UPLC-UV/MS. When I started at Pepscan I also worked at the analytics department for a short time, where I did purification of peptides with preparative HPLC.

I also have some experience operating a Symphony peptide synthesizer.

Near the end of my contract I was given the opportunity to work on certain improvement projects, which included but was not limited to testing new reagents, programming applications using Python and designing and producing new equipment to make the workflow more efficient.

Used Techniques: pHPLC-UV, UPLC-UV/MS, Lyophilization, Solid Phase Peptide Synthesis, Pipetting.

Feb. 2019 – Aug. 2019 **R&D Graduation Intern- Plantics B.V., Arnhem**

At this startup which specializes in biobased plastics, I did research on the synthesis and formulation of a novel biopolymer. The goal was to improve certain properties of the material and applications. I synthesized a number of different formulations, used them for the applications and analyzed the mechanical properties using a tensile testing machine. The result is that Plantics now knows the positive or negative effect from certain additions on the properties of the material.

Used techniques: Tensile testing, 3 point bend test, viscosity measurements, acid number determination

Oct. 2017 – Feb. 2018 **R&D Intern- Wittenburg B.V., Zeewolde**

At this producer of semi-finished products I’ve done research on the development of an extraction method of low molecular resins from styrene based thermoplastic elastomers, to qualitatively analyze the composition. A method was developed to make easily extract and determine these molecular resins.

Used techniques: GPC (UV and RI-detection) with Empower 2 software, FT-IR, Hi-Res TGA, DSC

**Extracurricular Activities**

*October 2018 – Educator Open Day Hogeschool Utrecht– I gave information to high school students about the study and helped with demonstrations in the laboratory.*

**Language skills**

*Dutch: Native*

*English: Excellent in speech and writing*

**Software skills**

Microsoft Office, ChemDraw/Marvin Sketch, Masslynx/Openlynx, Delta JEOL 5.2 NMR software, Empower 2, Anaconda 3, SYRO XP software.

**Other skills**

Programming knowledge, notably with Python

# Hobbies

Gardening, 3D-printing&Modeling, DIY engineering.