

March 2025

6-12 months HLD Internship, starting Sept. 2025: Formulation chemist VLCI-Amsterdam

VLCI provides R&D services to the formulation industry, focused on the practical implementation of predictive formulation sciences HSP and HLD, combined with High Throughput screening. Customers benefit from our on-demand approach and sustainable digitalization via web-apps (PrediApps), to drastically save in time and costs, while optimizing formulations efficiently. VLCI has established the world's largest predictive ingredient database of **HSP** and **HLD** from commercial ingredients, linked to web-apps. The data can be obtained for a broad range of ingredients and repeatedly used for the development of all types of formulated systems: coatings, personal care, household, agrochemicals, EOR, pharmaceuticals, etc. Read more at www.vlci.biz and www.prediapps.com.

For our PrediApps laboratory, we are looking for a **6-12 months intern, to start in Jan/Feb 2025**, as a **HLD formulation chemist**, for the following internship **description**:

- Learn about one of the applied formulation science (VLCI's core technologies):
 - **HLD** (Hydrophilic Lipophilic Difference), used for efficient surfactant selection, emulsion developments and improvement of properties.
 - If there is time, **HSP** (Hansen Solubility Parameters), ingredient matching. used for predictions on compatibility and property optimization.
- Obtain predictive ingredient parameters, HLD, for a wide range of selected ingredients, to increase our shared dataset, connected to PrediMulsion; personal/home care, coatings resins
- Build test cases with the obtained HLD to formulate via web-apps and test predictions experimentally. Research relations between the obtained parameters and formulation properties such as polymer rheology, product stability, emulsion properties etc. in personal/home care, coatings/inks.
- Apply HLD for commercial projects to perform various hands-on formulation projects in the field of paint & coatings, personal/beauty care, household and polymers.

The **profile requirements** are mentioned below:

- Student for a BSc or preferably MSc in formulation, polymer, material science, or organic chemistry.
- Inventive, out of the box thinking, with strong affinity for formulation science.
- Flexible, hands-on and willing to work in a dynamic company.
- Good and accurate communication skills, with good command of written and spoken English language.

What we **offer**:

- Challenging internship in a growing and dynamic company with open culture, which is disrupting the formulation world.
- Innovative, challenging and creative internship, serving a variety of international companies.

If you are interested, please send your application letter and CV **before 1st May 2025** to:
Sander van Loon, CEO, info@vlci.biz (Science Park 301, 1098 XH, Amsterdam, The Netherlands).