

June 12, 2023 Helsinki

Department of Chemistry, University of Helsinki, Finland

Funded PhD and postdoctoral positions (to start on September 1, 2023) provided by the Academy of Finland, in a project that combine organic photocatalysis, computational chemistry and machine learning.

Project title: **Machine learning (ML) guided design and synthesis of novel organophotocatalysts**

Positions available and deadline

- **Four-year PhD position** in the Helaja group in the Doctoral Programme in Chemistry and Molecular Sciences (CHEMS)
- **Four-year (2+2) postdoc position** in the Helaja group
- Deadline to submit applications: July 31, 2023

Salary (occupational health care included)*:

- PhD: 2300-2800 EUR (-progressive income tax (22-26%))
- Postdoc: 3300-3900 EUR (-progressive income tax (29-32%))

* *A bit of context: In Helsinki, a comfortable lifestyle can be achieved with approximately 1500 EUR per month, covering expenses such as rent, public transportation, groceries, and leisure activities.*

Additional benefits:

- Fully funded research stays abroad (optional, 3-6 months)
- Funded attendance to national and international conferences (optional)

Requirements

- Advanced knowledge of experimental synthetic organic chemistry
- Prior experience in computational chemistry and/or Python programming recommended
- Understanding of basic concepts of physical organic chemistry and photophysical phenomena

Research and educational goals

- Publishing manuscripts in high impact general chemistry journals
- Acquiring a good level of Organic Chemistry and machine learning, which is very useful to start an independent academic or industrial career

Primary research place

- The Helaja group - University of Helsinki, Finland (PI, supervision and expertise in synthesis and catalysis within organic chemistry):
<https://www.helsinki.fi/en/faculty-science/faculty/chemistry>

Exchange partner

- The Alegre group - University of Zaragoza, Spain (co-supervision and machine learning expertise):
www.thealegregroup.com

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Link to upload applications: ([will be opened in July](#))