Development of the portfolio in four clusters Cluster leads nominated by the departments

Biomass refining and advanced lignocellulosic materials

Cluster lead: Eero Kontturi

Molecular bioscience and Industrial biotechnology

Cluster lead: Alexander Frey

Chemical and metallurgical engineering

Chemical engineering and circular processes

Cluster lead: Marjatta Louhi-Kultanen

Chemistry and materials science
Chemistry for renewable energy and functional
materials

Cluster lead: Kari Laasonen

- Biomass refining
- Fiber and Polymer Engineering
- N5P in Polymer Technology (discontinuing)
- Biological and Chemical Engineering for a Sustainable Bioeconomy (Bioceb)
- Biotechnology
- · Biosystems and Biomaterials engineering
- · Chemical and Process Engineering
- Sustainable Metals Processing
- Industrial Energy Processes (Advanced Energy solutions)
- European Mining, Minerals and Environmental Programme (EMMEP)
- Chemistry
- Functional Materials
- Advanced Materials for Innovation and Sustainability (AMIS)
- Master's Programme in Energy Storage

Cluster leads will lead the discussion and development work in the cluster. Responsibility to take forward development actions and participate in portfolio renewal steering group work.

> MSc study offerings: CHEM own offerings AALTO Joint offerings International offerings

- International Design Business Management (IDBM) -> (includes compulsory CHEM minor)
- Creative Sustainability CHEM (connects to research focus area 1 & 3)
- Environomical Pathways for Sustainable Energy Systems (SELECT) -> selected courses from all study fields (discontinuing)

