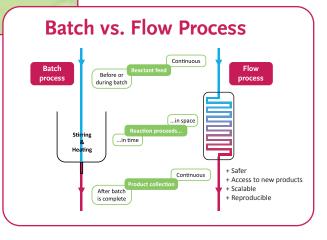


	FutureChemistry Holding BV
	Toernooiveld 100
	6525 EC Nijmegen
	The Netherlands
Т	+31 (0) 24 711 4029
F	+31 (0) 24 890 1446
Е	info@futurechemistry.com
W	www.futurechemistry.com

# Smart, safe and clean chemistry

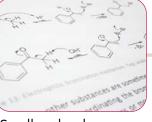


Need help with your process? Or too early to step into the game and first want a feasibility on your process? We have a team and equipment available for you to help you finding the best starting point for your flow chemical process, we can find optimal conditions, or find the reaction kinetic data for you. We have access to all regular analysis equipment such as HPLC, GC,MS,UV-Vis, IR NMR, electron microscopy and many more.



### Example applications





Small molecules



Photochemistry



Nanoparticles

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## Flow Process Implementation

#### Phase 1 - Flow process consultancy

- Thorough evaluation of customer requirements
- Deliverables:
  - A report on the possibilities in flow process
  - Project proposal Phase 2
  - Assistance with business case

#### Phase 2 - Proof of principle

- Translation of batch process to highly controlled scalable flow process
- Feasibility investigated in the laboratory
- Deliverables: sample of material and report, project proposal for Phase 3

#### Phase 3 - Process development

- Product and process development to meet customers quality specifications
- Up-scaling to proof-of-concept quantities
- Design of the chemical process and conceptual design of manufacturing equipment
- Deliverables: production samples, analysis, MSDS, project proposal for Phase 4

#### **Phase 4 - Implementation**

- Up-scaling and production
- Deliverable: implemented process equipment



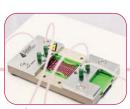
#### Selection of available capabilities:

Photochemistry Radiochemistry Nanoparticle formation GC-FID, GC-MS LC-UV, LC-ELSD NMR <sup>1</sup>H, <sup>13</sup>C, <sup>19</sup>F, <sup>31</sup>P DLS, Particle tracking UV-Vis FTIR MS-ESI, MS-FAB SEM, TEM www.futurechemistry.com call +31 (0) 24 711 4029

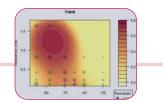
Phases:



Phase 1: Flow process consultancy



Phase 2: Proof of principle



Phase 3: Process development



Phase 4: Implementation