

 <p>universiteit hasselt CENTRUM VOOR MILIEUKUNDE</p>	<p>Centre for Environmental Sciences Hasselt University</p>
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Type of company: research institution/ university

What are the core activities of your company (mark with a cross):

Supply of resources	Production	Harvest	Downstream processing	Use of algae (products)

## 1. Company profile

Describe:

- Participating in applied and fundamental research on the biological, economic and legal aspects of environmental issues.
- Staff : 85
- Core specialisations :
  - i. Effects of (a)biotic stress factors at different biological organisation levels, from molecular to ecosystem level
  - ii. Remediation and management of contaminated soils & Renewable energy production
  - iii. Policy supporting environmental research

## 2. Algae based activities

- Measurement of biochemical parameters in stress responses, influence of stress on photosynthesis and metabolic content (lipid peroxidation, ascorbate - vitC, pigments, etc...).
- Techno-economic analysis of algae-based scenarios for energy production or water treatment

- Environmental analysis of ecosystem services and resource use for algae-based technical solutions

### 3. Market supply

- Research expertise in stress responses, mainly metal stress responses and organics, but extendable to other stresses (light, temperature, salt,...). Molecular, physiological and biochemical toolbox to define stress responses and to determine the influence on growth, photosynthetic activity, lipid peroxidation and level of important antioxidative metabolites.
- Specifically: Gene expression with quantitative PCR (high throughput system), antioxidative enzyme activities (96-well format), 2D DIGE proteomics, measuring metabolites (96-well format), measuring lipid peroxidation.
- Master students in Environmental Health Sciences: small research projects measuring above parameters in your system
- Economic and environmental analysis of new technologies incorporating algae-cultures.
- Policy analysis and policy advice for algae-based solutions
- Collaboration with projects for economic and environmental analysis through Master student research projects or PhD research programs.

### 4. Market demand

- Looking to solve with research projects specific problems or questions arising from your algae production. Joint masters projects or PhD projects.

### 5. Contact data

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