

## Customized environmental solutions

AERIS is an engineering comprising experts from the GENOCOV research group of the Universitat Autònoma de Barcelona. Its goal is improving the environmental quality of the emissions from both private and public facilities, using the best available technologies.

Our activity includes the assessment of the specific environmental issues affecting the client. AERIS also carries out the design, turn-key construction and the operation of biological and/or physicochemical systems for the treatment of polluted effluents.

Moreover, the optimization of existing facilities is also one of our strong points, always looking for the maximization of the removal efficiency at the minimum operational cost.

We aim at guaranteeing removal efficiencies complying with the current normative, at a competitive cost and minimal energy and environmental impacts.



**AERIS-SOX bioreactor  
for biogas  
desulfurization**

## Examples of biological processes

### Wastewater treatment

AERIS offers tested technologies for the treatment of highly-loaded urban wastewaters, as well as nutrients and/or colored or recalcitrant industrial effluents, always aiming at their reuse.

### Air / flue gas treatment

The biotrickling filters developed by AERIS are able to totally remove odor and VOCs from gaseous effluents at a minimal operational cost and assuring long durability and maximum robustness.

### Biogas desulfurization

AERIS bioreactors commonly reach H<sub>2</sub>S elimination efficiencies above 99 %. They do not require chemicals addition and, due to their optimized control system, do not accumulate elemental sulfur.

### Other areas of activity:

- > Design and construction of pilot plants for R&D
- > Pollutants' toxicity and inhibition tests
- > Biodegradability tests
- > Water reuse systems
- > Sampling and analysis of liquid and gaseous effluents
- > Energy optimization of environmental facilities
- > Training courses
- > Monitoring and control of treatment systems

Aeris Environmental Technologies S.L.

Edifici Eureka s/n. Campus de la U.A.B.  
08193 Bellaterra (Barcelona, Spain)  
Tel. (+34) 93 586 89 62  
info@aeristec.com



**UAB**

Aeris Environmental Technologies S.L.  
belongs to the Parc de Recerca  
of the Universitat Autònoma de Barcelona