



## JOB DESCRIPTIONS – TRAINEES AND STUDENTS

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**TARGET:** Engineering or Science Trainees and Students

**LOCATION:** Figueira da Foz, Portugal

### **ABOUT THE COMPANY**

ECOGESTUS Research & Consulting is an environmental consulting company (SME) with a specialist focus on waste and resource management, low-carbon energy, climate change and marine littering. Established in 2005 it has experience these fields both in Portugal, Europe and Africa (São Tomé, Mozambique, Guiné-Bissau). ECOGESTUS emphasises quality and innovation, and try to push organizations towards sustainable resource management by implementing best practices. The business is as challenging as exciting.

Since 2005 we have been working with Trainees from all over Europe, from Lithuania to Spain, across France and Slovakia, with very rewarding results. Both ECOGESTUS and Trainees profit from each other, developing new skills.

**BRIEF DESCRIPTION OF THE ROLES** - Under the supervision of the Senior Consultant, the Trainee performs engineering, managerial, administrative and communication tasks. Essential job functions of the Trainee position include, but are not limited to:

Engineering calculations -Accurately completing detailed engineering calculations on a daily basis and delivering reports concerning waste management in municipalities. Software knowledge required: spreadsheets and writer sheets.

**English is a must as a foreign language.**

**WORKING CONDITIONS** - Trainees interact with, solve problems for, motivate and serve a large group of people. They must handle multiple tasks simultaneously, are constantly prioritizing and are frequently interrupted. Trainees need to be alert, positive and approachable by everyone. They must cope effectively with widely diverse personalities.

**WORKING HOURS** - Full time, 35 hours per week, Monday to Friday, between hours of 9:00 – 18:00 (typically 8h30-17h00), frequently also involving some periods (2 -4 days) of research in other towns and cities, in Portugal and abroad.

**ACCOMMODATION** - In the low season months (Oct – June), plenty of accommodation is available in Figueira da Foz (room less than 125 euro), and in the nearby University town of Coimbra (40 km; 1 hour by train).

Contact Person:

Mr. João Miguel Vaz, Manager

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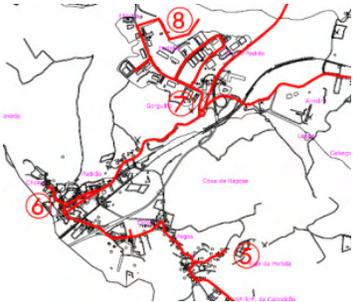
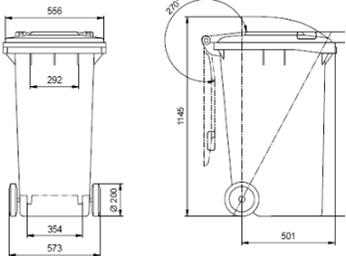
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# eco gestus

*Solid Waste  
Urban Cleaning*



Solid Waste Management and Urban Cleaning  
- Engineering & Consultancy -



## **WHO WE ARE, WHAT WE DO**

Introducing best practices and solutions in the Municipal Solid Waste (MSW) field, Collection and Treatment; and Public Cleaning sector; are our aim.

Lack of efficiency often appears due to the absence of a technical-scientific approach to waste management and public cleaning. Our methods consist in fully understanding how waste flows, which is done by investigation, documenting the problems, analyzing them, comparing them to the best available practices, interacting with the operating agents of change, implementing new organizational projects and by developing coherent strategies. Thus, transparent, independent and rigorous models of decision are created.

Training operators and decision makers improves organizations ability to act according to pre-established requirements. Our aim, do more with less by increasing human resources productivity.

We act by the positive: people, when motivated, join environmental projects, from recycling to domestic composting; waste is a resource not a source of nuisance and health threat.

**We contribute to improve the performance of our customers' organizations, increasing the standards of quality of the services provided.**

A handwritten signature in black ink, appearing to read 'João Miguel V.G. Vaz', is centered on the page.

**João Miguel V.G. Vaz**



Our mission is to provide the public and private sector with the means and the knowledge required to achieve environmental and economical efficiency

## VISION

A multidisciplinary team with experience in many case-scenarios, including rural and urban, national and international, allows us to recommend the best solutions to our customers. Quality, service, reliability and full satisfaction of our customers are the criteria we use.

## OUR MISSION

- Technical support in the sector of waste, cleaning and public health
- Consultancy, audit, reports and surveys
- Optimization and logistic rationalization with application of specific software to the organization of collection/transport of waste
- Dimensioning of integrated systems for the management of MSW
- Tax models (Pay As You Throw) applied to MSW and Public Cleaning
- Organization of environmental awareness campaigns
- Organizing applications to funding programs
- Stewardship in the implementation of solutions
- Training operators, decision makers and agents of change



*We perform optimization of the waste collection routes with reliable productivity gains*

## MUNICIPAL SOLID WASTE

### EVALUATION AND ASSESSMENT

- Physic-chemical characterization according to European standards
- Survey, analysis and diagnostic of the situation – status quo
- Evaluating systems operating costs
- Contract provisions conception and analysis
- Forecast for the quantities of waste produced in various areas (residential, commercial, agricultural and industrial)
- Studies centered on economical viability
- Waste prevention and minimization plans

### LOGISTICS

- Innovative systems for waste collection (different types of vehicles, containers)
- Inventory, analysis and diagnosis of waste management systems
- Planning and optimization of waste collection
- Organization models and staff management
- Studies on collection frequency
- Fleet management
- Software applied to collection routes, using GPS – Systems
- Operative characteristics and cost analysis
- Container identification systems
- Innovative collection systems



*The Polluter Pays Principle favors the best environmental practices*

## MUNICIPAL SOLID WASTE

### TARIFFS APPLIED TO MSW

- Revenue and expenditures reports
- Decision models including several variants
- User-Polluter-Payer or Pay-As-You-Throw principle implementation
- Campaign promoting transparency and adoption of the above concepts
- Legal framework evaluation
- Integration of the social equity and financial sustainable development

### FIELDS OF INTERVENTION

- Development of integrated projects for collection in rural/urban areas
- Organization of the organic waste valorization (composting, collection of garden waste)
- Planning waste management for cemeteries, parks, festivals and other events
- Establishment of programs for the collection of other MSW flows (domestic hazardous, hospital, sludge...)

We assess Urban Cleaning performance by implementing the best practices and respecting the environment.



*Quality of life implies a clean and healthy environment*

## URBAN CLEANING

An inadequate urban cleaning service has negative implications in the environment, the natural resources and the quality of life of populations apart from representing intangible losses in urban space qualification and attraction.

### EFFICIENCY ASSESSMENT OF URBAN CLEANING

- Definition of criteria that enables the assessment of the cleaning services
- Definition of sanitary and environmental goals
- Productivity quantification (km *per* hour; cleaning cost *per* area)
- Introduction of optimized models and routines by considering: street characteristics, manual sweeping vs mechanical, route optimization
- Contract provisions conception and analysis
- Multimedia documentation of cleaning services
- Benchmarking – comparison with best practices of national and foreign entities

### COSTS AND TARIFFS

- Conception of specific tariffs
- Basis and accounting of all costs

*Measure to know and to act*



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