

General data of the organization:

- name of the organization: HYDROTECH ENGINEERING S.RL.
- headquarter: VIA DEL LAVOR, N. 8 – 35030 BASTIA DI ROVOLON (PD)
- official website: www.hydrotechengineering.com

Brief presentation of the organization:

Hydrotech Engineering is headquartered in North Eastern Italy's industrial corridor.

Starting in 2001 our company has experienced unparalleled growth focusing on international markets.

The prerogative of the company is to design, manufacture, install and manage its installations.

The customer portfolio of Hydrotech Engineering boasts numerous Fortune 500 companies.

Hydrotech Engineering realizes advanced water treatment plants for the treatment of process and waste waters utilizing the most advanced semipermeable membrane and biological technologies for water recycling and reuse.

To guarantee optimum performance of our technology and to confidently adhere to the SLAs we control 100% of the entire project. From the project design phase to engineering, testing, manufacturing and logistics, our team owns each step of the supply chain.

The production process at HT began long ago. From the design of treatment processes, to engineering development and construction; every step is directly executed in our workshop. Continuous testing through onsite pilots and our advanced laboratories have allowed for perpetual fine-tuning. Our highly experienced technicians continue to improve the production processes and the quality of our machines. This is achieved by acknowledging the needs and the feedback from our clients. Another core differentiator is our focus on the automation, the control plants and their consequent energy efficiency. For this reason, the design, construction and development of all automation components including control software of the installations are developed exclusively in-house.

References:

CASE STUDY 1: DIGESTATE FROM ANAEROBIC FERMENTATION FROM BIOGAS PRODUCTION:

Anaerobic digestion is a biological process by which the organic matter from various origin is turned into biogas for energy production. This energy production process generates a residual product called anaerobic digestate. The characteristics of this residual product are: organic matter difficult to biodegrade, high presence of suspended solids and an elevated nitrogen concentration. Hydrotech Engineering uses the most modern technologies in the field of semipermeable membranes which allow the removal and recovery of nitrogen present in digestate. In addition, high quality water is obtained which can be reutilized in the industrial process or discharged in accordance to the most stringent environmental regulations. Since 2009 Hydrotech Engineering is the only company to have over 10 installations in operation treating digestate from

anaerobic fermentation. Together, our customers produce over 35 MW of power. These customers are able to efficiently treat digestate and monetize from its valorization.

CASE STUDY 2: ZERO LIQUID DISCHARGE TEXTILE

Water Reuse is a fundamental component in the battle for sustainable & integrated water resource management and water supply alternatives. The textile industry was the first to have embraced our Zero Liquid Discharge technology. Today, Hydrotech Engineering is the leading company in this field providing total effluent recovery. The companies using our technology in India, Pakistan and Bangladesh supply the top 5 global retailers with their fabrics, garments and houses-hold textiles. By implementing our Zero Liquid Discharge technology our customers are reutilizing on a daily basis over 100,000 m³ of their effluent generated in the manufacturing process instead of discharging into local waterways. From a competitive advantage standpoint, our customers benefit from having the lowest industry running costs. On average our technology utilizes 45% less to operate and manage than the competition making Hydrotech Engineering Zero Liquid Discharge the most competitive technology today.

Job proposal addressed to graduates in:

Master's Degree in Chemical Engineering

Activities offered to the candidate:

- 1) Preliminary design of new plants, aimed at identifying the purification/treatment cycle necessary to achieve the analytical parameter values required for the (re)use/recovery or discharge of water.
- 2) Contacts with customers to define objectives and budgets.
- 3) Contacts with suppliers for equipment supply requests.
- 4) Travels for participation in trade fairs or visits to customers.

Contract Type:

Full-time fixed-term contract (six months / 1 year) with the prospect of permanent employment.

Where to send the CV:

All the candidates need to send their CV with a short letter of introduction to:
quality@hydrotechengineering.com



HYDROTECH ENGINEERING SRL

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