

Oil & Gas

Life Sciences

Special Technologies



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“Simplicity is complexity resolved”

Constantin Brâncuși - Romanian sculptor

# Who we are

**GST** is a Rome-based engineering firm that specialises in international industrial projects. We use our knowledge and experience of *Industrial Processes* – in the fields of *Oil Refining, Pharmaceuticals, Renewable Energy, Aerospace*, etc. – to develop the range of skills and capabilities that enable us to provide high-quality services, in relation to the various plant design phases and disciplines. Building up on our core **Chemical Process Design** expertise, we can now meet the all-round needs of our Customers delivering *Consulting, Engineering, Procurement* support and *Construction and Commissioning* supervision services, as well as complete *Turnkey* solutions for small-scale plants or plant units. Thanks to its specific expertise and qualifications, GST has been selected by **Technip Group** as its Official Representative, in Italy, for Industrial Projects in the Pharmaceutical Sector.

This brochure is a general introduction to our company. The specific aspects of the three industrial macro-sectors in which we operate: **Oil&Gas, Life Sciences** and **Special Technologies**, will be addressed in as many dedicated brochures. For more information please visit our website at [www.gstengineering.it](http://www.gstengineering.it) and email us at [info@gstengineering.it](mailto:info@gstengineering.it).



# Our Vision

A Safe, Efficient and Eco-Sustainable Industry.

# Our Mission

Our mission is to provide **Technology Consulting, Process Design and Engineering, Procurement, Construction and Commissioning** services for the **Oil&Gas, Life Sciences and Special Technologies** sectors. Our ongoing focus is on integrating the different disciplines and solutions, besides innovation, safety and the environment, with a view to achieving and, indeed, exceeding our customers' expectations.

Who



# Our Values

**Integrity** – We operate honestly, ethically and fairly.

**Loyalty** – We speak openly and directly, with confidence, respect and the willingness to tackle any issues by investigating and understanding the problems and sharing the solutions.

**Reliability** – We keep our promises, abide by our commitments and take an active role in helping our clients succeed and grow.

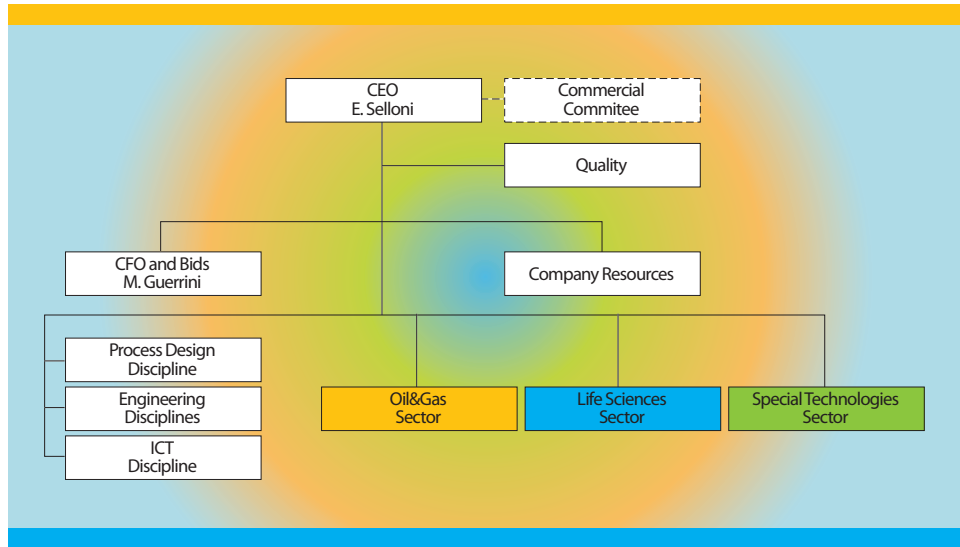
**Innovation** – We leverage our expertise and ongoing technological upgrading to develop, with our partners, new, creative and responsible solutions for our customers.

**Social responsibility** – We view health, safety and the environment as priority issues.

**Corporate culture** – We promote a work environment where creativity, productivity and powerful relationships can thrive. We encourage our staff to apply their talent, skills and critical thinking.



# Our Organization



Who





# What we do

The **Sectors** in which we operate (*references*) and in which we have built up our expertise (*competencies*), the **Disciplines** we master and the range of **Services** we provide.

## Sectors

GST operates in a broad spectrum of **Chemical Process Industry** sectors – the **Oil&Gas**, **Pharmaceuticals** and **Food** Industry sectors in particular – thanks to our all-round **Process Design** skills, and also guarantees extensive expertise in other fields that require specific know how, such as **Renewable Energies** and the **Aerospace** sector. Last but not least, at GST we are also actively involved in the **Environmental Protection** sector (including *Technological Risk Analysis*). We have grouped our core operational activities into three macro-sectors, each one of which is identified by a different colour: **Oil&Gas** (*yellow*), **Life Sciences Industry** (*blue*) and **Special Technologies** (*green*). In each of these Sectors, GST can provide a wide array of services: from *Technical Consulting* to *Design* and supervision during *Construction* and *Start-up*. An overview of the characteristics of each Sector, of our specific knowledge and expertise, and of the services we provide is given in the dedicated brochures.

# Disciplines

**Process Design** is GST's core business. The purpose of this **Discipline** is to translate our **Process** know-how into a set of guideline documents, to speedily and smoothly kick-start the **Detailed Design** activities. Building up on its core **Chemical Process Design** expertise, GST is able to develop all-round Process Design Packages for each of the Sectors it operates in. Moreover, at GST we also provide highly qualified specialist resources for a range of **Engineering Disciplines**: *Civil Works, Pressure Vessels, Piping, Machinery, Heaters and Boilers, Electrical, Instrumentation, Automation and Telecommunications*. In the Process Design field, these resources are used to support and complete the related activities, while in all the other fields they enable the effective and comprehensive finalization of the plant implementation phases. In fact, the *multidisciplinary* nature of all the sectors in which GST operates – as well as the ongoing market trend that requires *Contractors* to deliver all-round services, regardless of their size – necessitates the capacity to engage in increasingly broader fields and state-of-the-art specialist sectors. We need to highlight, in this respect, that our engineering activities are always developed based on the “*Intrinsic Safe Design*” approach, which involves strict compliance with the European (e.g. *ATEX, PED, EN 61511*) and international standards or with the best engineering practices, in the latter case, whenever the available standards are not up-to-date and in step with the most state-of-the-art technologies, as in the fastest-growing sectors.

## What



## Services

At GST we offer a broad range of Services, which can be grouped into two main families: **Consulting Services** and **EPC Services**. GST operates as a **Consultant** in **Process Management** and **Project Management**, to identify and meet its Customers' business needs, by means of competitively priced professional services. With regard to EPC Services, at GST we have the know how to cover every phase in the implementation of an industrial Plant, targeting both the **Construction of New Plants** (*Grassroot*) and the **Upgrading of Existing Plants** (*Revamping*). GST engages in the most widespread **Contract** arrangements (e.g.: *Reimbursable*, *Lump Sum of Services*, etc.), according to Customer needs and Project characteristics. Moreover, in both the **Life Sciences** (except for Pharmaceutical plants, which are traditionally developed on a reimbursable basis) and **Special Technologies** sectors, as well as in the case of small-scale **Oil&Gas** Plants, GST operates on a *Target Price*, *LSTK* or *Converted LSTK* basis. A summary of GST's Consulting and EPC Services is provided below, while a more detailed description can be found in the brochures dedicated to the three specific GST macro-sectors: **Oil&Gas**, **Life Sciences** and **Special Technologies**.



## Consulting Services

**Consulting Services** are the services typically provided by an Engineering Firm, to support Customers across the spectrum of Project Phases and Disciplines. Generally speaking, Consulting Services involve locating and eliminating sources of trouble (*troubleshooting*), or identifying and removing Plant bottlenecks (*debottlenecking*), and may also include the development of technical feasibility studies, assistance in the selection of the most suitable and state-of-the-art technology, materials selection, etc. In order to be effective, Consulting Services must be accurate and based on specific expertise and skills, as well as timely and tailored to the Customer's needs. GST's streamlined and flexible structure is particularly suited to delivering these services, in the form of **Conceptual Design, Feasibility Study and Technical Consulting**. The three sectorial brochures give an overview of several examples of *Consulting Service Packages*, in respect of which GST's experience may be found to be very useful and valuable.

### What



## EPC Services

In addition to Design and Engineering activities (*see Disciplines*), at GST we provide all-round Procurement services, on the basis of the Integrated Materials Management principle, i.e.: from the Preparation and Issuing of the Request for Proposal to the arrival of the materials at the Site. In the case of small/medium-scale Projects, Procurement activities may be carried out – in conjunction with the Engineering activities – on a Turnkey basis, with the integrated management of all the Plant equipment and materials. In the case of Construction and Pre-Commissioning activities, GST can assist the Customer from the preparation of the procurement documents to the supervision and coordination of Field activities, including the approval of the Subcontractors' progress reports and auditing of the relevant invoices. These services, in the case of small-scale plants, can be delivered on the basis of a Turnkey-type Contract. Similarly, in the case of Commissioning and Start-up, GST can either provide specific expertise or, in the case of small-scale Plants, deliver all-round management services, including the preparation of the test run procedures, validation of the test run reports, troubleshooting and instrument data reconciliation.



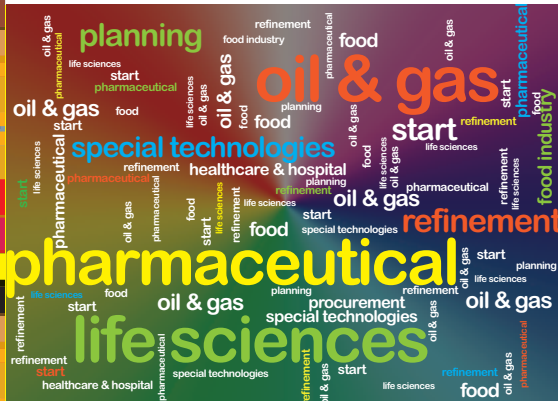
# How we do it

How we organize our activities and resources, outline our **Process Design** capabilities, which represent the core of our business, explain our **Project Management** and **Process Line** approaches, in support of our Process Design activities and, last but not least, provide an overview of our **Partner** network.



# Technological Process Lines

The GST approach to **Process Design** is based on our experience and mastery of the **Technological Process Line** involved. A specific knowledge of the process, combined with the relevant characteristics, technical scenario and market conditions, are a prerequisite for the proper development of the Process Design, in order to ensure respect of the local environment and regulations, and meet the Customer's expectations. Based on Process Design as our core activity, at GST we are capable of broadening the scope of our activities to include the related Engineering Disciplines. Moreover, for *small-scale plants or plant units*, we can provide all-round services, complete with the *Detailed Design, Procurement and Delivery* of equipment to the plant Site, and plant *Construction, Commissioning and Start-up*.



# Project Management

At GST we apply consistent and structured **Project Management** procedures to achieve our Customers' goals, throughout the Project life cycle, and manage our production structure according to sound Project Management principles, based on *Project Planning, Cost Control, Quality Assurance*, as well as Team Building and personnel Training, in a manner best suited to the specific Project needs. Regardless of the complexity, size or uniqueness of the requirements, we adopt well-established procedures, applied by knowledgeable and organized personnel. This approach ensures measurable results, in terms of *Time, Specifications, Budget and Quality*, with considerably reduced *Risk* levels.

## How

## Quality Management System

GST has developed and implements a **Quality Management System** conforming to the **ISO 9001: 2008** standard. The system has been validated by *Bureau Veritas Italia*, who is also responsible for auditing the System and determining its effective implementation and application to Company operations. As a result of the successful outcome of the audit process, GST has received the **Certificate of Conformity** to the **ISO 9001:2008** standard, with respect to "*Concept, Design, Procurement and Plant Construction Supervision and Management*".

# Project Organization

GST is a **Customer-Oriented Company** built on an in-depth knowledge of the industry in which it operates. In the Oil&Gas Sector, our **Process Design** approach is based on our experience and mastery of the **Technology Line** involved, while the **Project Organization** is based on the *Task Force* Model. Likewise, Life Sciences and Special Technology Projects – which require a different, albeit equally sophisticated, know-how – are also best tackled according to a Task Force approach, due to its flexibility and to the fact that it ensures a fast exchange of information. However, the Project Organization is constantly monitored and tailored to the Project characteristics: for example, in the Life Sciences and Special Technologies sectors, GST often applies the “**Integrated Management**” method, according to which the expert responsible for preparing the equipment specifications and the request for proposal also supervises the later stages of the procurement process, from issuing the relevant order to shipment to the *site*.



## Our Partners

Over the years, GST has developed a **Partner Network** with which it closely cooperates. The aim is to deliver highly specialized services by integrating the valuable skills and know how and the expertise of senior professionals and engineering firms, from different backgrounds and dealing with different aspects of industrial plant projects. Below are three examples of partners with which GST has built a structured and consolidated partnership.

### Best

#### How

**Best S.r.l.** is a Process Engineering Company specializing in the delivery of engineering services in the fields of open-art basic engineering design and process support to project execution. Best can rely on the longstanding process engineering experience of its founders in the *Oil&Gas* and *Petrochemical* industries.



## Quality Engineering

**Quality Engineering (QE) S.r.l.**, was founded as a partnership in 1998 and established as a limited company in 2003. **QE S.r.l.** is a company that provides **Multidisciplinary Integrated Design** and **Procurement Services** for civil and industrial engineering works. QE operates in a number of industrial sectors, especially the Process Industry, targeting both the *Construction of New Plants* and the *Upgrading of Existent Plants (Revamping)*.



## Sagec International

**Sagec International** is a small enterprise whose mission is to develop new **Business** opportunities for international projects in the **Oil&Gas** industry. Sagec has built up great expertise in *Industrial Plants* on many markets worldwide, especially in *North and Central Africa, Latin America, Eastern Europe and the C.I.S. (Commonwealth of Independent States – former Soviet Republics)*, especially with regard to *Oil Refining* and *Petrochemicals*. **Sagec** closely cooperates with **GST**, contributing its in-depth knowledge of industrial environments and of the key people working there.

How



Project  
**NetSociety - Rome**

Design  
**Aton - Rome**

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