

## STRATEGOS: MSc in Engineering Technology for Strategy & Security

The University of Genoa organizes **STRATEGOS**: the new *International Master Science Degree* (MSc, *Laurea Magistrale dell'Università di Genova*) in “*Engineering Technology for Strategy and Security*”, developed in strong synergy with Major Companies & Organizations.

**STRATEGOS** is 1<sup>st</sup> Italian MSc on *Strategic Engineering* and among first ones in the world.

The Master's Degree **STRATEGOS** deals with a new discipline: Strategic Engineering is promoted by Industries to combine *Simulation, Data Analytics, AI/ IA<sup>2</sup>* to address *Strategic Decision Making*. **STRATEGOS** is very trans-disciplinary and provides to Engineers important elements of *Economics* and *International Affairs* to interact and work with *Decision Makers* and *Executives*

**STRATEGOS** uses extensively *Labs, RPG<sup>3</sup>, Simulations, Serious Games*, and interactions with *Experts* & in *Companies*, to concretely experiment the proposed concepts on the field.

## STRATEGOS PROGRAM

**STRATEGOS** is two years long, including the last Semester to be conducted entirely as Internship, with related Thesis, inside a Company (48 credits over 120 total) addressing a real problem.

**STRATEGOS** core is represented by *Modeling, Simulation Techniques, AI Methodologies, Smart Algorithms, Machine Learning, Data Farming & Analytics* for *Complex Systems*. These aspects are integrated with enabling factors such as *IoT<sup>4</sup>, IoT<sup>5</sup>, Social Media, Human Behavior Models* in order to support design and development of new Solutions. **STRATEGOS** program includes also 4 courses of *Economics* and 2 of *International Affairs* to assess KPIs<sup>6</sup> and Risks.

## STRATEGOS: INDUSTRIAL INTERNSHIPS & EXPERIENCES

Prestigious Multinational Industries such as *Accenture, Ansaldo, Axpo, Hitachi, Leonardo, PW, Tenova, Thales* etc. are among the promoters of **STRATEGOS** (all lectures in English plus a Technical English Course).

**STRATEGOS** Companies offer to our students the final *Internships* in their Organizations which fully covers the last Semester (40 credits) plus related Thesis (8 Credits): indeed they aim to train students as well as to evaluate them while searching for talents in *Strategic Engineering*. In addition there are other experience possibilities in *Centers of Excellence* of *International Agencies* (e.g. NATO) and *Hi-Tech Companies*,

**STRATEGOS** offers also many additional options, perfectly integrated into its Program: for example to conduct a *Summer Stage* on the field along the first year, perhaps during a start-up of a *new Innovative System* or into an *Hospital of an Emerging Country*, or by collecting/processing data *on board a Military Vessel* or assisting a *Manager within his Company*; indeed we want our Strategic Engineers to know how to support high-level decisions using the most important modern technologies, but also to *take the field*, getting *hands dirty* and to *face real challenges*.

**STRATEGOS** offers you many Workshops and Seminars, developed side by side with Industries, on Specific Applications to Complex Systems such as *Strategy Management, Organization Change, Hybrid Warfare, Operational Planning, Cyber Security, Project Management, Safety & Security, Business Intelligence*, etc.

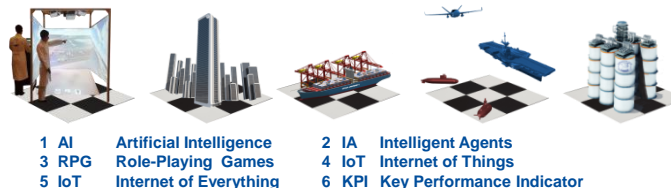


## STRATEGOS: YOUR JOB & FUTURE

By completing **STRATEGOS** Program you will learn how to interact with *Decision Makers* to work in *Large Industries*, in *Consultancy*, in *Hi-Tech Companies* and/or *International Organizations*. This is a very *stimulating job* where you will have to know how to meet the needs of the *Managers* to design and develop innovative Solutions based on the combination of *Simulation, Big Data* and *Machine Learning* to guarantee *Competitive Advantages*. You will analyze problems, create new algorithms and architectures based on *advanced technologies* and you will frame the final results within *Innovative, Immersive, Interactive* and *Intuitive Environments* able to validate and use them. Therefore it will be very important for you to be able to propose alternatives directly to the *Decision Makers* and to guide them in the management and execution of their *Strategies*.

## STRATEGOS: ENTRY REQUIREMENTS

**STRATEGOS** accepts all BSc in Engineering (Lauree Triennale). Applicants are invited to send their CV to [info.strategos@diten.unige.it](mailto:info.strategos@diten.unige.it) and to apply for an individual interview (live/skype/phone) to obtain a personal *Assessment* on their *Potential for Strategic Engineering* and *English skills*.



1 AI Artificial Intelligence  
3 RPG Role-Playing Games  
5 IoT Internet of Everything

2 IA Intelligent Agents  
4 IoT Internet of Things  
6 KPI Key Performance Indicator

