



SIRIA srl is a company dealing with the planning, the design and the implementation of strategies for the prevention, the monitoring and mitigation of the environmental risk.

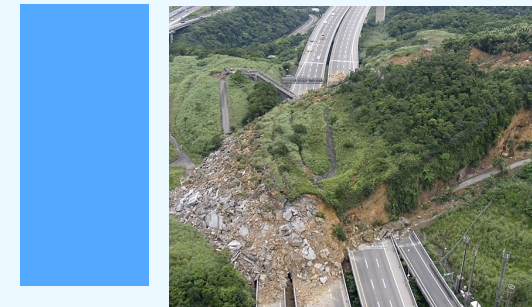
The company offers its expertise and the best scientific and technical skills in the following branches:

ENVIRONMENTAL CHEMISTRY

GEOTECHNICAL ENGINEERING

ENVIRONMENTAL ENGINEERING

Integrated services and Research for the Environment



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Spin-off of the University of Calabria

SIRiA srl. - Servizi Integrati e Ricerca per l'Ambiente

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Intervention Areas

SIRIA srl combines technical and scientific skills, in a way which is hard to find in any other company.

The integration of the knowledge gained from three different research and analysis areas, enables SIRIA srl to deal with any environmental issue.

CHEMICAL-BIOLOGICAL AREA

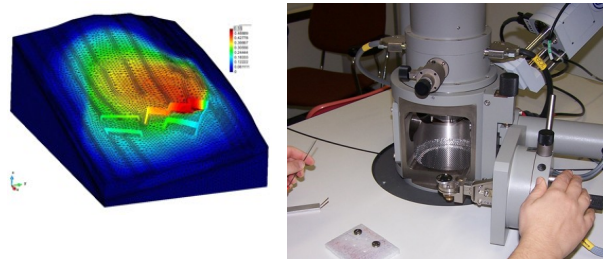
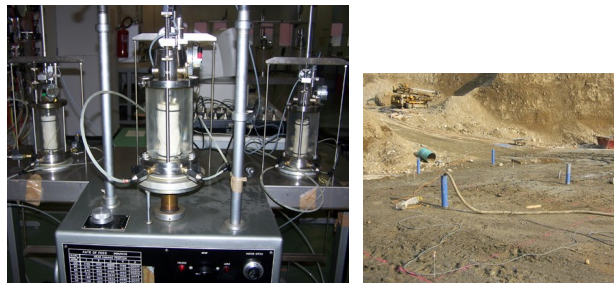
This area is led by Prof. Giuseppe Chidichimo and coordinated by Dr. Amerigo Beneduci. They have a research laboratory equipped with updated instrumentation for the analysis of air, water and soil contaminants. Moreover, they developed patents concerning the use of reagents for the design of permeable reactive barriers and filters for the remediation of polluted sites.

GEOTECHNICAL ENGINEERING AREA

Directed by Prof. Enrico Conte and coordinated by Prof. Antonello Troncone, this area manages the activities for landslides stabilization and monitoring and for the mitigation of the seismic and hydrogeological risk. The geotechnical area holds a laboratory for the identification and mechanical characterization of the soil properties and the equipment for on-site geophysical analysis. Because of their research activities, the engineers belonging to this area have developed advanced modeling capabilities so they can work with multi-physical models based on FEM and FDM methods.

ENVIRONMENTAL ENGINEERING AREA

The skills of this compartment, directed by Prof. Salvatore Straface, are related to the hydrodynamic and hydrodispersive characterization of heterogeneous aquifers, flow and transport modeling of reactive substances in both saturated and unsaturated porous media, brownfield remediation, predictive models validation, superficial and groundwater hydrologic balance, innovative solutions for several environmental issues. The environmental engineering area is equipped with the latest hydrogeophysical instrumentation, powerful modeling codes and a laboratory for the development of scaled physical models, in order to check the validity of new techniques for soil and aquifer remediation.



The laboratories

Chemistry and chemical technologies

Equipment:

Brucker 300 NMR spectrometer, FT UV-Vis-IR spectrophotometer, Spectrophotometer for elemental analysis, ICP-MAS spectrometer, HPLC and UFHPLC, mass spectrometer, Spectrophotometer for X-ray fluorescence, ion chromatograph, 2 chemical benches, 4 fume hoods, oven, muffles, polarized light microscope, electron microscope SEM with EDX analysis, twin screw extruder, industrial presses, atomic force microscope, gas chromatograph.

Geotechnical laboratory

Equipment:

Direct shear test machines, ring shear test machine, oedometer test apparatus, ASTM sieves for particle size analysis, sedimentation apparatus for particle size analysis, equipment for the Atterberg limits determination, triaxial cells and compression machine for CU, UU and CD tests, open pipe piezometric probe, SASW testing equipment, CROSS-HOLE and DOWN-HOLE testing equipment.

Environmental engineering research site

Equipment:

The site is provided with a well-field of 13 wells for models validation, pressure transducers for water level ongoing monitoring, electrical conductivity portable gauges, multi-parameter probe for PH, dissolved oxygen, temperature and water level monitoring, SYSCAL Pro Logger + 100 active electrodes, Keithley 2701 Logger + 100 nonpolarizable passive electrodes, TDR equipment for soil moisture measurements, permeameters systems, air pycnometer, Richards apparatus, peristaltic pumps, mini-tensiometers.