
Education

PhD, Civil Engineering, Pontifical Catholic University of Rio de Janeiro/Brazil, Geotechnical Engineering, 2008

MS, Civil Engineering, Pontifical Catholic University of Rio de Janeiro/Brazil, Geotechnical Engineering, 2004

BS, Civil Engineering, Universidad Nacional de la Patagonia, Hydraulic Engineering, 2000

Experience Summary

Ms. Moncada is a geotechnical engineer with 14 years' experience in a variety of geotechnical projects. Her experience includes soil and laboratory investigations, geotechnical instrumentation, deformations and stability analyses, foundation design, and geohazard risk analyses. Ms. Moncada is proficient in many geotechnical analytical and finite element models and software including GEOSLOPE, SEEP/W, Plaxis, Tough2, and AutoCAD Civil 3D.

Project Experience

Geotechnical

PORTO DO SUDESTE PROJECT | RIO DE JANEIRO, BRAZIL

As Geotechnical Engineer, performed deformation and stability evaluations for the Port's main access road (Estrada Joaquim Fernandez). (Planave, 2013)

PORTO DE SÃO SEBASTIÃO PROJECT | SÃO PAULO, BRAZIL

Geotechnical Engineer responsible for the geotechnical investigations and definition of geotechnical parameters, soil profile, and analyses to define the foundation solution for the port enlargement. (Planave, 2013)

PORT FACILITIES PROJECT – RIO JACUÍ, CHARQUEADAS | RIO GRANDE DO SUL, BRAZIL

As Geotechnical Engineer, prepared technical specifications for the geotechnical investigation and performed deformation and stability analysis for the port slopes. (Planave, 2013)

SAMARCO PROJECT | MINAS GERAIS, BRAZIL

Engineering Manager responsible for management, control, and quality control of geotechnical investigation and geotechnical instrumentation program for the tailings disposal facilities at Samarco Mine. (Fugro, 2014 to 2018)

PILHA CIANITA PROJECT | MINAS GERAIS, BRAZIL

Engineering Manager responsible for management, control, and quality control of geotechnical investigation (field and lab tests) and geotechnical instrumentation program for a dry stack tailings disposal facility; pilot plant at Mina do Pico, Vale S.A. (Fugro, 2016 to 2018)

SAFETY MANAGEMENT OF GEOTECHNICAL STRUCTURES PROJECT | BRAZIL

As Engineering Manager, performed evaluations on geotechnical instrumentation projects for several tailings dams at Vale S.A. mines in Brazil. The scope of the project included the critical evaluation of the existing geotechnical instrumentation, considering the behavior associated to each dam structure (embankment, foundation, abutment, internal drainage, tailings, etc.), historical data, failure mechanism, and monitoring. Work entailed defining installation of new instruments and automation of the existing ones to achieve an adequate monitoring process. (Fugro, 2017 to 2018)

Geohazard

EMERGENCY PLAN ANGRA I AND ANGRA II | RIO DE JANEIRO, BRAZIL

Geotechnical Engineer responsible for the assessment of landslide susceptibility for the emergency plan at the nuclear power plant (Angra I and Angra II). (Puc-Rio, 2008)

EROSION CONTROL AND RESTORATION PLAN | BAHIA, BRAZIL

As Geotechnical Engineer, made recommendations on an erosion control and restoration plan for the Camboatá complex. (Puc-Rio, 2007)

Employment History

CURRENT EMPLOYER	TIERRA GROUP INTERNATIONAL S.A.C.
POSITION	Project Engineer
YEARS	2018 to Present
EMPLOYER	UNIVERSITY FEDERAL FLUMINENSE - UFF
POSITION	Associated Professor
YEARS	2009 to Present
EMPLOYER	FUGRO INSITU GEOTECNIA LTDA.
POSITION	Laboratory Manager
YEARS	2014 to 2018
EMPLOYER	PLANAVE S.A.
POSITION	Geotechnical Engineer
YEARS	2013 to 2014
EMPLOYER	PONTIFICAL CATHOLIC UNIVERSITY OF RIO DE JANEIRO
POSITION	Laboratory Manager
YEARS	2010 to 2013
EMPLOYER	PONTIFICAL CATHOLIC UNIVERSITY OF RIO DE JANEIRO
POSITION	Geotechnical Engineer
YEARS	2004 to 2010
EMPLOYER	CHUBUT STATE GOVERNMENT
POSITION	Civil Engineer
YEARS	2001 to 2002
EMPLOYER	UNIVERSIDAD NACIONAL DE LA PATAGONIA
POSITION	Trainee
YEARS	1999 to 2001
EMPLOYER	UNIVERSIDAD NACIONAL DE LA PATAGONIA
POSITION	Student Assistant
YEARS	1998 to 2000

Language Proficiency

Spanish: Native
English: Intermediate
Portuguese: Fluent
French: Basic