



Mario Orozco

Principal Risk Engineer

Mario joined IMIU as Principal Risk Engineer in March 2024. Mario has extensive experience in mining risk engineering with over 30 years serving in a similar role with Zurich Insurance.

Prior to joining IMIU, Mario was the Chief Risk Engineering Officer at Zurich in Latin America, responsible for leadership, talent development, financial performance, technical excellence, service innovation, fee generation, and overall operational transformation across all lines of business within risk engineering. Mario enhanced the standing of Risk Engineering in the Latin American market by presenting leadership to customers and brokers, and the industry. He drove the implementation of benchmarking programs for key domestic clients, actively partnering with claims and underwriting to leverage valuable insights and publish impactful risk learnings for wider industry impact. He championed the regional customer recommendation program, propelling the region to the top in completion rates. Mario recruited and cultivated specialists in Cyber, Climate Change/Natural Hazards, Liability, Motor, Construction, Property/HPR, Energy, Marine, Machinery Breakdown, Mining, and Business Resilience, setting a new standard in customer and UW service for the region.

In parallel, Mario served as the Global Mining Segment Leader for the Zurich Risk Engineering Mining Technical Center since 2006, where he elevated Zurich's mining book of business profitability over the past decade through the creation and implementation of technical standards to assess risks and qualify engineers, thereby supporting the growth of the mining business at Zurich. He formed a global mining team by coaching and assembling a group of Mining Experts, addressing the limited presence of risk engineers in specific regions.

Prior to joining Zurich in Latin America, Mario was the Director for the Energy and Marine US shared services at Zurich Risk Engineering, delivering essential support to the Mining, OGP, Power Generation, and Marine Sectors, guaranteeing operational standards across diverse industries.

Mario provided Risk Engineering Consulting Services to mining customers. Worked in numerous large-scale operations in North America, South America, Africa, Asia, Australia, Europe, and The Former Soviet Union, assisting global mining customers to develop and implement comprehensive risk management and loss prevention programs. This included risk consulting, developing risk improvement programs, conducting hazard analysis, developing loss estimates, fire protection consulting, natural hazards evaluations, machinery breakdown assessments, builders' risks analysis, workers compensation and environmental liability for Metal/Non-Metal and Coal mining operations.



Prior to Zurich, Mario worked as Project Manager/Hydrogeologist for Law Environmental developing and implementing ground water remediation projects, for Mirza Engineering as a Geotechnical Engineer at construction projects and for Technica Ltd as a field engineer conducting Cone Penetration Tests at Dam Projects.

Mario is the Mining Facilities Committee Chairperson for the National Fire Protection Association NFPA 120 “Standard for Fire Prevention and Control in Coal Mines” and NFPA 122 “Standard for Fire Prevention and Control in Metal/Non-Metal Mining and Mineral Processing Facilities”. He has maintained the position since 2016 and guided the committee in revising the standards, leading to the publications published in 2020 and 2023. He joined the Mining Facilities Committee in 2003. Mario was also the Editor of Chapter 16, “Mining and Mineral Processing” of the NFPA Fire Protection Handbook where he directed the editing process for the chapter in the 21st Edition, published in 2023.

Mario was a lecturer for the Zurich International Risk Engineering Course (Environmental Liability Unit) for 12 years. He enhanced risk engineering knowledge for Zurich Relationship Customers and risk engineers through specialised Environmental Liability expertise by delivering impactful one-day lectures in Zurich, Schaumburg, and Birmingham.

Education and Certifications:

- BACHELOR OF SCIENCE IN MINING ENGINEERING - Southern Illinois University, Carbondale, IL
- M.S. EARTH SCIENCE, HYDROGEOLOGY - Northeastern Illinois University, Chicago, IL
- ASSOCIATE IN RISK MANAGEMENT (ARM) - American Institute for Chartered Property Casualty Underwriters
- REGISTERED PROFESSIONAL GEOLOGIST - States of Pennsylvania and Kentucky
- ZURICH HAZARD ANALYSIS TEAM LEADER - Zurich Risk Engineering, Schaumburg, IL
- INTERNATIONAL FIRE PROTECTION COURSE - Zurich Risk Engineering, Schaumburg, IL
- INTERNATIONAL RISK ENGINEERING COURSE - Zurich Risk Engineering, Schaumburg, IL