

# Reza R Osgoui

PhD, MSc



## Professional Qualifications & Registrations

Member, Turkish Society of Rock Mechanics

Member, International Society of Rock Mechanics

Referee, Tunnelling and Underground Spaces Technology. Elsevier. (since 2010)

## Educations

PhD, Mining Engineering: Rock Mechanics, Middle East Technical University, Ankara, Turkey 2006

MSc, Tunnelling and TBMs, Politecnico di Torino, Italy 2006

MSc, Mining Engineering, Azad University of Tehran, South branch, Iran 2000

BSc, Mining Engineering, Azad University of Tehran, South branch, Iran 1997

## Current Position

Senior Tunnel Engineer,  
GEODATA Engineering SpA  
Since 2007

## Years of Experience

20 years

## Personal Data

Year of Birth 1975

Resident Turin/Italy

osgoui@gmail.com

## Languages

	R	s	w
Persian	Mother tongue		
Italian	g	o	f
English	o	o	o
Turkish	g	o	f

Key r=reading, w=writing,  
s=speaking; o=optimum, g=good,  
f=fair

## Expertise

Over 20 years' experience in the fields of tunnelling in soft grounds to rocks, Underground Cavern, TBM tunnels, RC and FRC segmental lining Design, Risk-based driven method, Numerical modelling in tunnelling, Author of 20 technical papers, one book, and many engineering design reports, Peer reviewer of Tunnelling and underground space technology journal (TUST) since 2010, External invited lecturer of SFRC segmental lining for the MSc program of mechanized tunnelling at Politecnico di Torino.

## Key Experience

Dr.Reza Osgoui is a Rock Mechanics specialist with particular experience in planning and design of tunnels (NATM & TBM) in rock and soil, particularly in characterisation of rock masses, in risk-based tunnel design, segmental tunnel lining, TBM excavation design. His knowledge in numerical modellings is mainly focused on 2D STRAUS, ROCSCIENCE PACKAGES, FLAC.

Dr.Osgoui was previously research assistant in Mining Engineering Department, Rock Mechanics Division, at Middle East Technical University (METU) in Ankara during 2001-2005.

He is developer of a closed-form solution for determination of stress-deformation of rock tunnels used also in design of the grouted bolts in tunnels. His tunnel support pressure equation co-worked with Late Prof. Erdal Unal has been widely used in area of tunnelling. He modified the so- called GSI chart for poor rock mass condition that widely used in the field of geological engineering.

As a senior engineer of GEODATA he is currently working mainly on long and deep tunnels, focusing mainly on rock engineering aspects and TBM tunnel design and partially on shallow tunnels in urban areas.

Dr. Osgoui has worked recently in many world-class tunnel projects in Australia, Albania, Italy, Turkey, Iran, Slovenia, Chile, Argentina, China, India, Algeria, Greece, Russia, Singapore, Costa Rica, Malaysia, and the others.

Dr.Osgoui has published many publications of which four were cited by ISI. His PhD thesis was published as a technical book by VDM Verlag (September 2009).

As a segmental lining expert in GEODATA, he has recently carried out successfully several design and dimensioning the tunnel segmental linings (from tender design to constructive phases) for Ahvaz Metro in Iran, Metro Athens in Greece, Metro Singapore, Metro New Delhi, Mumbai, Ahmedabad, Bangalore in India, Urban railway connection in Perth in Australia, FAL project, Melbourne metro, Extension Metro of Moscow in Russia, Tabellout water conveyance tunnel in Algeria, Basento water delivery tunnel in Italy, Gubrist Tunnel in Switzerland, Metro Quito in Ecuador, Yindajihuang Water Supply Project in China, Metro of San Jose in Costa Rica, Metro Istanbul (Two lines in Asian part) in Turkey, Hydraulic tunnel in Buenos Aires in Argentina, and Yamanli II Headrace tunnel in Turkey, Cross River Rail project in Brisbane of Australia, West South Airport WSA link in Sydney. The FAL project (Forrestfield Airport Link) located in Perth of Australia was the main recent project in which many news aspects of the segmental lining have been proposed, of which the hybrid segment (SFRC+ steel reinforcement) was characterized. Dr. Osgoui was the chief Engineer in charge of developing such a project from Tender to constructive stages. He has acted as tunnel engineer for the Istanbul Metro Asian Part, Twin high speed rail way tunnels in Malaysia; El Teniente Mineral Tunnels in Chile, Transandino transport Tunnel in Chile-Argentina, Alto Maipo hydropower project in Chile, and Reggio Salerno highway tunnel in Italy. He acts also consultant for many projects (different phase from tender to construction) in GEODATA Eng.

Contact:

[osgoui@gmail.com](mailto:osgoui@gmail.com)

+39 329 0661897