

CHRISTINA VULOVA, P.E.

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Georgia

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OBJECTIVE

Seeking a career in the field of Civil/Geotechnical Engineering in a medium to large growth-oriented company. Interested to work on projects involving subsurface investigations, foundation engineering, earth support structures, dams, tunnels, landfill design, remediation and geosynthetics applications.

SUMMARY OF QUALIFICATIONS

- Over 20 years of progressive experience in project management, value engineering, design, and material testing in the field of civil engineering, geotechnical engineering and geosynthetics
- Expert of Mechanically Stabilized Earth (MSE) technology that utilizes geosynthetics to built cost-effective earth support structures, steep slopes, roadways, foundation improvements, landfill berms and other applications.
- Excellent analytical and problem solving skills. Ability to balance multiple priorities maintaining focus on objectives, customer service and performance. Excels at developing solutions across different areas of engineering. Embraces change and leads by example. Persuasive public speaker.

PROFESSIONAL EXPERIENCE

Application Technology Manager / Project Manager

Tensar Earth Technologies / Tensar International Corporation, Atlanta, Georgia

9/2000 – 4/2009

- Managed R&D initiatives to support existing and develop new applications of geosynthetic materials for grade separation (MSE retaining walls, steep slopes), subgrade improvement and base reinforcement solutions in transportation, land development, and waste containment industries. Participated in research, conducted training, authored specifications and technical papers to support use of geosynthetics technology. Championed development of proprietary software. Conducted material testing related to geogrid use per ASTM, ISO, and industry standards
- Managed design services and daily operations in 15 to 22 states and 3 Canada provinces. Oversaw design services for solid waste industry in North and South America achieving 100% success ratio in 2003–2004.
- Directed project teams in completion of projects, established scope of work and schedules. Reduced turnaround time of design services below 5 days for preliminary/bid estimates, and below 2 weeks for routine final designs. Achieved average rate of completion of 1.2 –1.6 projects per day in 2002-2003. Project size varied to over \$1.2 million worth in material/geogrid costs
- Performed engineering analysis of large or complex projects. Designed MSE walls and slopes for various conditions. Generated the largest value of final engineering fees that accounted for over 10% of 2003 total engineering fees
- Served as advisor of MSEW/Deep Foundations Interaction study. Designed full-scale test wall, developed geogrid instrumentation program and oversaw field installation. Implementation of research to result in savings exceeding \$5/square foot of wall face
- Conducted training for engineers, sales force and distributors. Supported marketing and sales teams. Authored and improved specifications and guidelines for design and construction of MSE systems in landfill and other applications.
- Authored and implemented design efficiency and document control programs. Initiated risk management program for feasibility analysis and risk assessment of critical projects. Improved peer review procedures
- Contributed to development of FHWA sponsored technical design guidance on inspection of MSE walls and reinforced soil slopes, and geotechnical engineering design using geosynthetics (2009 Geosynthetics Manual)

(Continued)

Research/Teaching Assistant

University of Delaware, Delaware

1/1999 – 8/2000

- Conducted research on MSE technology using advanced numerical modeling. Results published in Master's thesis, FHWA report and technical papers
- Taught lab classes in Soil Mechanics with undergraduate students, graded assignments

Senior Assistant Professor / Assistant Professor

University of Forestry, Sofia, Bulgaria

2/1989 – 7/1998

- Taught Theoretical Mechanics and Civil Engineering to undergraduate students majoring in Landscape Architecture and Mechanical Engineering
- Conducted research on cost-effective erosion control structures, co-authored study manual

Structural Design Engineer

Machine-building plant, Lyaskovetz, Bulgaria

11/1985 – 1/1989

- Designed civil and industrial buildings with reinforced concrete and steel structure
- Developed construction plans

Independent Consultant Practice

(University of Forestry, Airin Design Group, private clients, Sofia, Bulgaria – details available)

Designed and oversaw construction of experimental check dams; developed erosion & sediment control plan to prevent flooding in coal mining basin; conducted stability analysis of surface landslides; designed family houses with reinforced concrete structures; developed construction plans.

EDUCATION, CERTIFICATION, AFFILIATIONS

- MS, Civil Engineering, University of Delaware, Newark, Delaware, 1999–2000
- Post Graduate Study (MS equivalent), Civil/Geotechnical Engineering, University of Architecture & Civil Engineering, Sofia, Bulgaria, 1994 – 1996
- BS / MS, Civil Engineering (5 years), Major in Structural Engineering, University of Architecture & Civil Engineering, Sofia, Bulgaria, 1980 – 1985
- Licensed Professional Engineer, State of Georgia
- Working toward LEED Green Associate certification, USGBC
- Affiliations: American Society of Civil Engineers, ASCE Geo-Institute, Transportation Research Board (ASF70, ASF90 member), International Erosion Control Association, Geosynthetics Materials Association, North American Geosynthetics Society/International Geosynthetics Society, US Green Building Council.

References Available upon Request