

# Justin Church, PE Principal Engineer

As President and Principal Engineer of Blue Ridge Environmental Consultants, PA, Mr. Church brings a diverse engineering background to the science of stream restoration. Mr. Church holds a Masters Degree in Engineering in addition to being a current PhD candidate in the Department of Biological and Agricultural Engineering at North Carolina State University where his advisor is Dr. Greg Jennings, a highly regarded geomorphologist. Mr. Church has spent over two years as part of the Stream Restoration Program at North Carolina State University where he has designed and implemented stream restoration and stormwater quality projects, lead monitoring of large mitigation projects for North Carolina's in-lieu fee program (NCEEP), taught workshops on stream restoration assessment, design, and construction practices as well as NCDOT erosion and sediment control certification classes. Mr. Church is committed to 3-D design approaches first developed by Bidelspace to quickly create design iterations. One of Mr. Church's primary research interests is the development of design platforms that integrate stream restoration tool sets to promote more effective, cheaper, and constructible designs.

## Education

B.S. Electrical and Computer Engineering,  
Clemson University- Clemson, SC, 2001  
M.S. Electrical and Computer Engineering,  
North Carolina State University-Raleigh, NC, 2003  
Ph.D Biological and Agricultural Engineering,  
North Carolina State University-Raleigh, NC, (current)  
Fluvial Geomorphology for Engineers (Rosgen Ie),  
Wildland Hydrology, Asheville, NC, 2008  
River Morphology and Applications (Rosgen II),  
Wildland Hydrology, Asheville, NC, 2008  
River Assessment and Monitoring (Rosgen III),  
Wildland Hydrology, Dobson, NC, 2009  
River Restoration and Natural Channel Design  
(Rosgen IV), Wildland Hydrology, Breckenridge, CO, 2009  
Stream Morphology Assessment (RC 101), North  
Carolina State University, Asheville, NC, 2007  
Natural Channel Design Principles (RC 201),  
North Carolina State University, Asheville, NC, 2007  
Stream Restoration Design – Hydraulic Modeling  
(RC 301), North Carolina State University, Raleigh, NC, 2008  
Construction Practices for Stream Restoration (RC 401),  
North Carolina State University, Raleigh, NC, 2008

## Key Responsibilities

Stream/Wetland Restoration Design  
Sediment and Erosion Control Design  
Sediment and Fluvial Process Modeling  
Restoration Implementation

## Recent Project Experience

Rendezvous Mountain Stream Restoration Phase II  
Purlear, NC\* (Researcher – Construction Management)

North Toe River Stabilization  
Newland, NC\* (Construction Management)

Town of Newland Stormwater Wetland  
Newland, NC\* (Construction Management)

Elk River Stream Restoration  
Banner Elk, NC (Design Engineer – Construction  
Management)

Cub Creek Stream Restoration Phase I  
Wilkesboro, NC (Design Engineer – Construction  
Management)

Wilson Park Stream Restoration  
Lenoir, NC\* (Design Engineer – Construction  
Management)

Boone Town/County Park Stormwater Wetland  
Boone, NC\* (Design Engineer – Construction  
Management)

Idol Park Stream Restoration  
Madison, NC (Design Engineer – Construction  
Management)

Cove Creek Stream Restoration  
Sugar Grove, NC (Design Engineer – Construction  
Management)

Marley Ford Water Fowl Impoundment  
Wilkesboro, NC (Design Engineer)

Puncheon Creek Stream Restoration  
Somerset, KY (Surveyor – Geomorphologist)

Rendezvous Mountain Stream Restoration Phase III  
Purlear, NC\* (Design Engineer – Construction  
Management)

West Knoxville Wal-Mart Stream Mitigation  
Knoxville, NC\* (Design Engineer)



\* Done with other firms