

ORIGINAL SIGNATURES

**SEALED BID: Expression of Interest: Building 22 Server Rooms HVAC Project**

**BUYER:** Jessica S. Chambers  
**SOLICITATION NO:** CEOI 0211 GSD17-0000000-6  
**BID OPENING DATE:** December 20, 2016  
**BID OPENING TIME:** 1:30 EST  
**FAX NUMBER:** 304-558-3970

**OFFERING A MULTI-DISCIPLINARY TEAM**  
Data/Server Room HVAC Experience  
Local Presence  
Energy Saving Strategies

Tower Engineering  
115 Evergreen Heights Drive  
Pittsburgh, PA 15229  
412-931-8888  
jkosinski@estower.com

**TOWER**  
ENGINEERING

and

  
WILLIAMSON  
SHRIVER  
ARCHITECTS

12/19/16 10:06:38  
MV Purchasing Division

**DESIGNATED CONTACT:** Vendor appoints the individual identified in this Section as the Contract Administrator and the initial point of contact for matters relating to this Contract.

Tower Engineering, Inc.

(Name, Title)

James N. Kosinski, PE, LEED AP - Vice President/Principal

(Printed Name and Title)

115 Evergreen Heights Drive, Suite 400, Pittsburgh, PA 15229

(Address)

Phone: 412-931-8888 Fax: 412-939-2525

(Phone Number) / (Fax Number)

jkosinski@estower.com

(email address)

**CERTIFICATION AND SIGNATURE:** By signing below, or submitting documentation through wvOASIS, I certify that I have reviewed this Solicitation in its entirety; that I understand the requirements, terms and conditions, and other information contained herein; that this bid, offer or proposal constitutes an offer to the State that cannot be unilaterally withdrawn; that the product or service proposed meets the mandatory requirements contained in the Solicitation for that product or service, unless otherwise stated herein; that the Vendor accepts the terms and conditions contained in the Solicitation, unless otherwise stated herein; that I am submitting this bid, offer or proposal for review and consideration; that I am authorized by the vendor to execute and submit this bid, offer, or proposal, or any documents related thereto on vendor's behalf; that I am authorized to bind the vendor in a contractual relationship; and that to the best of my knowledge, the vendor has properly registered with any State agency that may require registration.

Tower Engineering, Inc.

(Company)

  
(Authorized Signature) (Representative Name, Title)

James N. Kosinski, PE, LEED AP - Vice President/Principal

(Printed Name and Title of Authorized Representative)

James N. Kosinski, PE, LEED AP - Vice President/Principal

(Date)

Phone: 412-931-8888 Fax: 412-939-2525

(Phone Number) (Fax Number)

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- Copies of Firm Registration
- Copies of Professional Licenses

December 16, 2016

State of West Virginia  
Department of Administration, Purchasing Division  
2019 Washington Street East  
Charleston, WV 25305

SEALED BID: Expression of Interest: Building 22 Server Rooms HVAC Project  
BUYER: Jessica S. Chambers  
SOLICITATION NO: CEOI 0211 GSD17-0000000-2  
BID OPENING DATE: December 20, 2016  
BID OPENING TIME: 1:30 EST  
FAX NUMBER: 304-558-3970

Dear Ms. Chambers and Members of the Selection Committee:

When technology upgrades create unforeseen conditions in older buildings - we have solutions!

For more than 85 years, Tower Engineering has served clients throughout Western Pennsylvania and West Virginia. For this project we have teamed with Williamson Shriver Architects (WSA), located one mile from the site. We have worked with WSA for more than 30 years on many project types - more than 200 projects.

Tower Engineering is taking the lead for this proposal because most of the work will involve engineering expertise to evaluate and assist you in creating a better functioning environment to maximize the efficiency of your server room and other areas, with WSA supporting the project with programming, space planning and assisting with the schedule, especially if phased construction is required to keep the building in continuous use.

We have worked on dozens of buildings from this era, including several in West Virginia. At this point in the technology revolution, every higher education facility, plus buildings in most sectors, have dedicated server rooms. We are confident that our team would serve the State of West Virginia well with our combined knowledge.

We look forward to your decision, and would be pleased to present our plan in more detail at an interview. In the meantime, please feel free to contact us if you need additional information.

Sincerely,



James N. Kosinski, PE, LEED AP  
Vice President/Principal  
412-931-8888 X 135  
jkosinski@estower.com

## Team Member Profiles



Tower Engineering has been providing innovative mechanical, electrical, plumbing, and fire protection solutions since 1931. While Tower is a generalist firm, it primarily serves the K-12 and higher education, healthcare, senior living, hospitality and recreation sectors in both renovations and new construction. The firm's highly-trained staff of project managers, designers, and technical support personnel is capable of providing consulting services for every type of project - from a small, single-family residence to a high tech research facility incorporating redundant mechanical and electrical systems, DDC energy management and thermal storage.

Tower's engineers utilize state-of-the-art software programs for the design of lighting, electrical power and mechanical systems. Lighting analysis includes point-by-point calculations, ESI analysis, exterior lighting analysis, and life cycle cost comparisons. Electrical power analysis includes fault current and load flow analysis.

Mechanical design and analysis services include energy economy analysis, thermal storage analysis, heating and cooling load calculations, refrigerant piping design, water system designs, along with BIM modeling. Their professional staff utilizes computer selection of air handling units, coils, pumps, terminal devices, fans, cooling towers, chillers, heat exchangers, kitchen hoods, hydronic and steam specialties, humidification equipment and heat recovery equipment.

Sustainability principles are considered at every design point, and firm principals personally lead every project. The firm has 26 employees, including 10 Registered Professional Engineers and nine (9) LEED Accredited Professionals.

### HVAC

- Heating and cooling system design
- Ventilation system design
- Building automation systems
- Control systems and energy monitoring
- Geothermal system analysis and design
- Heat recovery systems
- Kitchen and laboratory exhaust systems
- Smoke evacuation systems
- Computer room environmental control systems
- Building commissioning services

### ELECTRICAL

- Interior and exterior lighting design and studies
- Lighting controls
- Primary and secondary voltage power distribution systems
- Fire detection and alarm systems
- Computer data and power systems
- Uninterruptible power supply systems
- Reinforced and masking sound systems
- Lightning protection systems
- Fault current studies
- System over-current protection coordination
- Security systems

### TELECOMMUNICATIONS

- Voice communication systems
- Data network systems

### PLUMBING

- Water resource efficiency analysis
- Sanitary drainage systems
- Storm water management
- Domestic water systems
- Waste water treatment systems
- Hospital and laboratory piping systems
- Fuel oil piping systems
- Irrigation systems

### FIRE PROTECTION

- Standpipe and sprinkler systems
- Fire protection systems

### COMMISSIONING

- New Construction Commissioning
- Renovation Commissioning



Williamson Shriver Architects Inc., headquartered in Charleston, WV, is an award-winning, multidisciplinary design firm with business roots back to 1967.

While specializing in educational and commercial planning and design, the firm provides design services to a diverse client base throughout West Virginia.

With construction values exceeding one billion dollars over our history, the size and scale of its projects have ranged from detailed designs for small interior renovations to large multi-million dollar new facilities. Large or small, simple or complex, every project has their commitment to diligent, thoughtful design. The firm's functional and distinctive buildings reflect the vision of their clients and the spirit of their communities.

Experienced, capable, and responsive, the firm has a long tradition of excellence and client commitment with a clear understanding of technology, sustainability, and a wealth of experience.

Every Williamson Shriver Architects design is a collaboration with the end user. The finished projects work for people because they start with people. Through focus groups, individual interviews, and public meetings, as appropriate and adapt designs to accommodate how the building users work in the space.

The result of this process ... flexible design solutions that respond to people and make the most of budgets. Commitment to quality, dedication to project and client, and a 50 year tradition of innovation and architectural excellence... that's Williamson Shriver Architects. No matter what the program, site, or budget, we've been there and we have the experience and vision to shape your project into a success.

#### In House Services

- Pre-Design & Planning
- Architecture
- Structural Engineering
- Interior Design
- Construction Procurement / Administration
- Cost Estimating
- Sustainable Design

Tower Engineering has worked on more than 210 projects with Williamson Shriver Architects over the past 30 years.

Resumes for Key Personnel are in the Appendix of this project. Since the RFP does not offer a project schedule, staffing would be determined when a schedule is set.

## References

### For Tower Engineering:

Mr. Rich Donovan  
Chief Procurement Officer  
West Virginia Higher Education Policy Commission  
304.558.0281 X 212  
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Morgantown, WV 26505

### For Tower Engineering and Williamson Shriver Architects:

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Superintendent  
Monongalia County Schools  
Morgantown, WV  
(304) 291-9210

### For Williamson Shriver Architects:

Chairman Michael Albert  
Chairman, Public Service Commission of WV  
Public Service Commission of WV  
Charleston, WV  
(304) 340-0356

Mr. Dewayne Dickens  
Executive Director  
Ronald McDonald House Charities of Southern WV  
Charleston, WV  
(304) 346-0279

The Honorable Mayor Frank Mullens  
City of South Charleston  
South Charleston, WV  
(304) 744-5301  
Manager of Building Services

## **Project Approach and Methods - Anticipated Tasks**

### **Planning**

The design of effective, efficient building systems has become increasingly complex and demanding. With so many systems from which to choose, all with distinct advantages and disadvantages, selecting the best possible system can be quite daunting. The design team must carefully consider how system alternatives best meet the immediate and long-term needs of the Owner and building occupants, as well as regulatory agencies. Inappropriate, outdated, or misapplied systems result in comfort complaints, indoor air quality issues, control problems, and exorbitant utility costs.

The process would start with a kick-off meeting to identify your concerns, followed by observation and testing to document the existing conditions.

The goal of the Planning Phase of any project is to identify the scope of work for the project. To this end, Tower Engineering's team of engineers and designers address and determine how the final system selection is impacted by such major issues as advancing technology, changes in design standards, higher expectations of comfort levels, greater awareness of environmental concerns, the needs and availability of practical energy conservation costs within budget constraints. An assessment report, including a description of the present systems, evaluation of existing conditions and defects, recommendations, and an estimate of budget/cost implications is provided to assist in the decision-making process. We then develop a list of applicable corrective options that can be considered.

We recognize that there is no cookie-cutter approach that can be taken because all buildings and owners are unique.

We will work with intense collaboration with the State of West Virginia's stakeholder group so that the design that emerges will support the work environments through good planning. Through our experience in coordination and careful listening, we will program, plan and oversee these building renovations and upgrades.



## Relevant Experience

Commercial and Higher Education facilities commonly have dedicated server rooms, which require proper control of temperature, humidity, air circulation with features such as uninterruptable power sources and ease of access.

Tower engineering recently completed studies and improvement recommendations for several Dollar Bank facilities as well as our own building, owned by Management Sciences Associates.

Other data center clients include:

- Alcoa
- Ally Financial
- Bayer
- Blue Cross
- Consolidated Communications
- Fairmont State University
- Fisher Scientific
- Fiserv Data Center and Fire Protection
- Legent Corporation
- Massey Coal
- MSA (Evergreen Heights), and Phase 2
- Orrick Herrington & Sutcliffe
- PNC Bank
- Pittsburgh Public Schools
- RIDC Pittsburgh
- Saint Vincent College
- South Hills Data Communications
- University of Pittsburgh
- Verizon
- Waynesburg University
- Westinghouse
- Rocket Center, WV



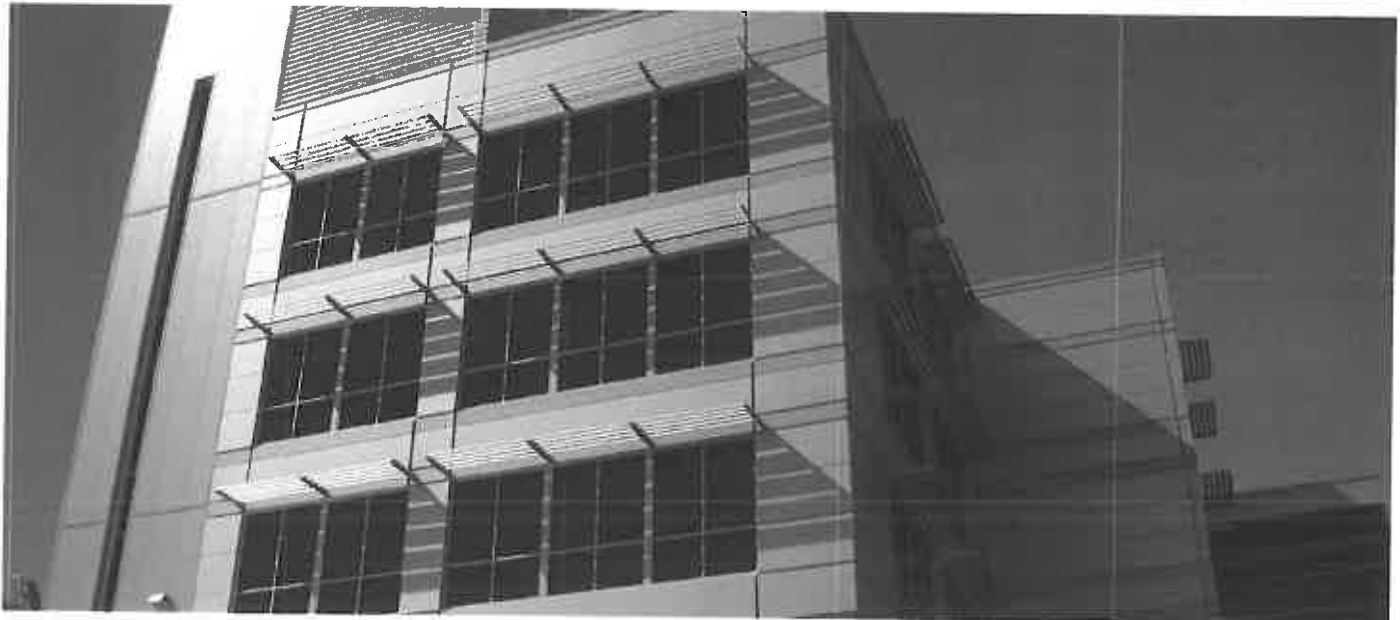
MSA



PNC Bank

# FIRST ENERGY (FORMERLY ALLEGHENY ENERGY) NEW TRANSMISSION OPERATIONS HEADQUARTERS FAIRMONT, WV

YEAR COMPLETED:  
2011  
SQUARE FOOTAGE  
148,000  
TOTAL CONSTRUCTION COST  
\$35 million



Tower Engineering provided mechanical and electrical engineering services for the new Allegheny Energy Transmission Operations Headquarters in Fairmont, West Virginia. The facility serves as the center for Allegheny Energy's multi state transmission functions, providing round-the-clock management of the electric grid. Totalling 148,000 SF, the building contains the control center, data center, and approximately 85,000 SF Class A office space.



The state-of-the-art facility is specifically designed to meet the needs of Allegheny Energy's transmission business, which includes two new projects, the Trans-Allegheny Interstate Line (TrAIL) and the Potomac Appalachian Transmission Highline (PATH), as well as 4,600 miles of existing transmission line.

The environmentally friendly building is certified under the Leadership in Energy and Environmental Design (LEED) Green Building Rating System.

- (2) 1750 Kw, diesel fired emergency generators, not paralleled; complete N+1 design
- (2) 500 Kva UPS with wet cell battery racks for data center and command room; complete N+1 design. This is all DC power, converted by UPS into AC for general use.



# MANAGEMENT SCIENCE ASSOCIATES, INC. EVERGREEN HEIGHTS DATA CENTER PITTSBURGH, PA

YEAR COMPLETED:  
2013

SQUARE FOOTAGE  
10,000

TOTAL CONSTRUCTION COST:  
\$16 million



This project involved the creation of 10,000 square feet of data center space in an existing building, with provisions for 10,000 SF of additional data center space in the future. The electrical system design included providing two new 480V services, 4MW parallel N+1 generator plant (with provisions for expansion to 6MW), redundant UPS systems, and all associated distribution equipment out to the PDU's on the data center floor. The system was designed to allow for easy expansion to feed the additional 10,000 SF of future data center space without affecting the operation of the first phase. Detailed design work was required in order to work within limited building space for electrical equipment, and to provide for future expansion.



# THE CONAIR GROUP, INC. HEADQUARTERS AND RESEARCH & DEVELOPMENT CENTER

## PITTSBURGH, PA

YEAR COMPLETED  
1998  
TOTAL SQUARE FOOTAGE  
82,000  
TOTAL CONSTRUCTION COST  
\$5.5 million



Tower Engineering provided mechanical and electrical engineering services for this renovation/expansion project for Conair, a manufacturer of ancillary processing equipment used in injection molding and extrusion processes.

This project proceeded under a very tight schedule and included renovation of an existing office building and construction of a 40,000 SF Tech Center addition, which houses development labs for the testing of plastics industry equipment in actual production settings. The new addition is linked to the existing building by an atrium to the main building, creating a new lobby, conference areas and training facilities for Conair's customers. Two existing buildings containing 42,000 SF were completely renovated to provide contemporary corporate office and conference space.

# PNC BANK

## MULTIPLE PROJECTS

Tower Engineering has worked on 64 PNC branch and One PNC headquarters projects since 1997. The bank branch renovation and fitout projects are throughout Pennsylvania, Ohio and New Jersey.

The PNC Headquarters projects include office fitouts, emergency power, a call center in the USX Tower, server rooms, chilled water, water and electrical system designs and troubleshooting with problems like vibration, roof snow melt and arc flash.



St. Mary's, PA



Sharon, PA



Two PNC, Pittsburgh, PA

# CRANBERRY WOODS BUSINESS PARK

CRANBERRY TOWNSHIP, PA

YEAR COMPLETED  
2010  
TOTAL CONSTRUCTION COST  
\$62 million



Tower Engineering provided mechanical and electrical engineering services for more than \$62 million of construction at Cranberry Woods Business Park. Our projects included:

- Building I: Tenant fitup of approximately 12,000 sf.
- Building II: Tenant fitup of 107,000 SF for Verizon Call Center. Tower Engineering also provided systems commissioning services for this building.
- Building III: Mechanical/electrical engineering design and commissioning services for a new 120,000 SF, \$18 million, Class A office building. In addition, Tower Engineering provided engineering services for tenant fitup of the entire building.
- Building IV: Mechanical/electrical engineering services for a new 106,436 SF, \$18 million, Class A office building - Tower Engineering provided engineering services for tenant fitup of 13,000 SF of this building.

**Appendix**

**Tower-Williamson Shriver Project List**

**Resumes of Key Personnel**

**Copies of Firm Registration**

**Copies of Professional Licenses**

## Project List by Client

Project Status	Project ID	Project Description	Client
Closed	2011025	Putnam County BOE - Lakeside Elementary School	Williamson Shriver Archite
Closed	2011117	Calhoun County Middle/High School - Air Condition Gymnasiums	Williamson Shriver Archite
Closed	2011139	Arch Coal Office Renovation	Williamson Shriver Archite
Closed	2011159	Putnam County BOE - Winfield Elementary School Renovations	Williamson Shriver Archite
Closed	2011160	Mingo County BOE - Tug Valley Athletic Complex	Williamson Shriver Archite
Closed	2011161	Berkeley County BOE - Gerrardstown Middle School	Williamson Shriver Archite
Active	2011169	Berkeley County BOE - Martinsburg North Middle School Renovation	Williamson Shriver Archite
Closed	2011173	Monongalia County BOE - University High School Facilities Building	Williamson Shriver Archite
Closed	2012013	Putnam County Schools - Technology	Williamson Shriver Archite
Closed	2012016	Putnam County Schools - Conner Street Elementary	Williamson Shriver Archite
Closed	2012036	Lewis County BOE - Roanoke ES HVAC Renovation	Williamson Shriver Archite
Closed	2012044	Putnam Cnty BOE - Auxiliary Gyms - Alternates - Hurricane, Poca, Winfi	Williamson Shriver Archite
Closed	2012066	Monongalia County BOE - Morgantown HS Fieldhouse	Williamson Shriver Archite
Active	2012110	Lewis County BOE - Leading Creek Elementary School	Williamson Shriver Archite
Closed	2012137	Clay County BOE - Batelle HS Athletic Field Track Electrical Systems	Williamson Shriver Archite
Hold	2012187	Jefferson County Visitor's Center	Williamson Shriver Archite
Closed	2012204	Lewis County BOE - Roanoke ES - HVAC Equipment Replacement	Williamson Shriver Archite
Closed	2012213	Berkeley County BOE - Spring Mills HS Athletic Facilities	Williamson Shriver Archite
Closed	2012245	Monongalia County BOE - Westwood Middle School Locker Room/Conc	Williamson Shriver Archite
Active	2012259	Hardy County BOE - Moorefield High School	Williamson Shriver Archite
Active	2012260	Hardy County BOE - East Hardy High School	Williamson Shriver Archite
Closed	2012261	Morgan County BOE - Berkeley Springs High School Gym Bldg. Renovat	Williamson Shriver Archite
Closed	2013027	Lewis County BOE - Peterson-Central Elementary School ATC Upgrades	Williamson Shriver Archite
Active	2013164	Webster Co BOE - High School Renovation	Williamson Shriver Archite
Hold	2013180	Monongalia County BOE - Morgantown High School Stadium - Phase 3	Williamson Shriver Archite
Closed	2013204	Lewis County BOE - Peterson Central ES Chiller Replacement	Williamson Shriver Archite
Hold	2013372	LaQuinta Hotel - Elkview	Williamson Shriver Archite
Hold	2013373	LaQuinta Hotel - Summersville	Williamson Shriver Archite
Closed	2014018	Access Office Bldg - Elevator Addition and Exterior Renovations	Williamson Shriver Archite
Active	2014022	Burlington Center School - Classroom Addition	Williamson Shriver Archite
Hold	2014025	Morgan Co BOE - Pleasant View Elementary School Renovation	Williamson Shriver Archite
Active	2014043	Gilmer County BOE - Cedar Creek Elementary School	Williamson Shriver Archite
Closed	2014073	Lewis County BOE - Roanoke Elementary School - Boiler Replacement	Williamson Shriver Archite
Active	2014120	Monongalia County BOE - Eastwood Elementary School Classroom Addi	Williamson Shriver Archite
Active	2014242	Monongalia County BOE - Suncrest Elementary	Williamson Shriver Archite



Project Status	Project ID	Project Description	Client
Closed	95036.00	Mineral Cnty WV - New H S	Williamson Shriver Archite
Closed	95038.00	Berkeley County BOE - Musselman H S	Williamson Shriver Archite
Closed	95039.00	Morgan County WV Morgan M S	Williamson Shriver Archite
Closed	95040.00	Berkeley County BOE - Potomack Intermediate	Williamson Shriver Archite
Closed	95042.00	Berkeley County BOE - Mussleman M S	Williamson Shriver Archite
Closed	95043.00	Calhoun Cnty WV - Calhoun M/H S	Williamson Shriver Archite
Closed	95072.00	Princeton H S	Williamson Shriver Archite
Closed	96022.00	Caperton Center	Williamson Shriver Archite
Closed	96026.00	Nicholas Cnty Center Addition	Williamson Shriver Archite
Closed	96032.00	Walton M S Add	Williamson Shriver Archite
Closed	96062.00	Nella's Nursing Home	Williamson Shriver Archite
Closed	97006.00	Bluefield Intermediate 4-S	Williamson Shriver Archite
Closed	97007.00	Benedum Airport	Williamson Shriver Archite
Closed	97008.00	Princeton Elem K-2	Williamson Shriver Archite
Closed	97043.00	Clay Elem Sch Add	Williamson Shriver Archite
Closed	97044.00	Moundsville Junior H S	Williamson Shriver Archite
Closed	97046.00	Gilmer H S	Williamson Shriver Archite
Closed	97053.00	Spencer	Williamson Shriver Archite
Closed	97074.00	Valley Elem Sch	Williamson Shriver Archite
Closed	97076.00	Philip Barbour H S	Williamson Shriver Archite
Closed	97076.01	Philip Barbour H S - Gas Shave Stations	Williamson Shriver Archite
Closed	97133.00	Tygart Lake State Park	Williamson Shriver Archite
Closed	98025.00	M & M Bldg Ren	Williamson Shriver Archite
Closed	98075.00	Princeton H S Athletic Facilities	Williamson Shriver Archite
Closed	98082.00	Pleasants Cnty BOE Belmont School 97 MIP	Williamson Shriver Archite
Closed	98082.01	Pleasants Cnty BOE Belmont School 98 MIP	Williamson Shriver Archite
Closed	98082.02	Pleasants Cnty BOE Belmont Sch 98 Needs HVAC/Electrical/Lig	Williamson Shriver Archite
Closed	98082.03	Pleasants Cnty BOE Belmont Sch Reno (Bond)	Williamson Shriver Archite
Closed	98082.04	Pleasants County Board of Education - The Belmont School Red	Williamson Shriver Archite
Closed	98089.00	Wellsburg M S	Williamson Shriver Archite
Closed	98090.00	Berkeley County BOE - Winchester Avenue Elem	Williamson Shriver Archite
Closed	98091.00	Clay Auditorium Classroom Ren	Williamson Shriver Archite
Closed	98091.02	Clay Cnty BoE Clay M S Cost Estimate for MIP Funding	Williamson Shriver Archite
Closed	98101.00	Benedum Airport Redesign	Williamson Shriver Archite
Closed	98128.00	Shepherd College Athletic Facility	Williamson Shriver Archite
Closed	98137.00	Fairplain Elem Sch	Williamson Shriver Archite
Closed	98141.00	Roane Cnty Tech Office/Warehouse	Williamson Shriver Archite
Closed	98150.00	South Charleston ADC	Williamson Shriver Archite

Project Status	Project ID	Project Description	Client
Closed	99014	Mercer Cnty BOE Bluefield H S Elec Serv	Williamson Shriver Archite
Closed	99015	Mercer Cnty BOE Athens Sch Elec Serv	Williamson Shriver Archite
Closed	99016	Mercer Cnty BOE Memorial/Mercer Schs Elevator	Williamson Shriver Archite
Closed	99017	Mercer Cnty BOE Stanley Elem Toilet Upgrades	Williamson Shriver Archite
Closed	99018	Mercer Cnty BOE Montcalm H S Athletic Facility	Williamson Shriver Archite
Closed	99019	Mineral Cnty BOE Mineral Cnty Vo-Tech Fire Alarm Sys	Williamson Shriver Archite
Closed	99020	Lewis Cnty BOE Lewis Cnty H S Athletic Facilities	Williamson Shriver Archite
Closed	99031	Mingo Cnty BOE Gilbert M S	Williamson Shriver Archite
Closed	99032	South Charleston City Hall Ren	Williamson Shriver Archite
Closed	99033	Glenville Senior Center	Williamson Shriver Archite
Closed	99094	Morgan County BOE - Berkeley Springs H S	Williamson Shriver Archite
Closed	A0015	Barbour Cnty BOE Philippi Elem	Williamson Shriver Archite
Closed	A0016	Brooke Cnty BOE Roofing Projects	Williamson Shriver Archite
Closed	A0024	Berkeley County BOE - North Central Intermediate	Williamson Shriver Archite
Closed	A0048	Jefferson Co. Board of Education	Williamson Shriver Archite
Closed	A0075	Mingo County Board of Education - Lenore K-8	Williamson Shriver Archite
Closed	A0078	Keyser High School - New Athletic Facilities	Williamson Shriver Archite
Closed	A0100	Berkeley County BOE - West Central Intermediate School	Williamson Shriver Archite
Closed	A1008	Brooke County BOE - Collier Primary	Williamson Shriver Archite
Closed	A1009	Brooke County BOE - Jefferson Primary	Williamson Shriver Archite
Closed	A1010	Brooke County BOE - Follansbee Middle	Williamson Shriver Archite
Closed	A1011	Brooke County BOE - Wellsburg Middle	Williamson Shriver Archite
Closed	A1012	Brooke County BOE - Hooverson Heights Primary	Williamson Shriver Archite
Closed	A1013	Brooke County BOE - Franklin Primary	Williamson Shriver Archite
Closed	A1014	Brooke County BOE - Beech Bottom Primary	Williamson Shriver Archite
Closed	A1015	Brooke County BOE - Edgewood Primary	Williamson Shriver Archite
Closed	A1016	Brooke County BOE - Bethany Primary	Williamson Shriver Archite
Closed	A1017	Brooke County BOE - Lauretta B. Millsop Primary	Williamson Shriver Archite
Closed	A1018	Brooke County BOE - Wellsburg Primary	Williamson Shriver Archite
Closed	A1029	Barbour Cnty BOE - Philippi Middle School Renovations	Williamson Shriver Archite
Closed	A1030	Barbour Cnty BOE - Belington Elementary School Renovations	Williamson Shriver Archite
Closed	A1031	Hampshire Cnty BOE - Romney Middle School	Williamson Shriver Archite
Closed	A1034	Wirt Cnty BOE - HS Renovations	Williamson Shriver Archite
Closed	A1042	Berkeley County BOE - Tuscarora Elem RTU Replace - Phase 2	Williamson Shriver Archite
Closed	A1047	Morgan Cnty BOE - Paw Paw HS - Electric Service	Williamson Shriver Archite
Closed	A1049	Mineral Cnty BOE - Head Start	Williamson Shriver Archite
Closed	A1063	Jackson Cnty BOE - Fairplain and Ripley Elem Schools Classr	Williamson Shriver Archite
Closed	A1102	Grant County BOE - Petersburg Elementary RTU Replacement	Williamson Shriver Archite

Project Status	Project ID	Project Description	Client
Closed	A2004	Pleasants County BOE - Pleasants County Middle School	Williamson Shriver Archite
Closed	A2005	Berkeley County BOE - Spring Mills Middle School	Williamson Shriver Archite
Closed	A2006	Morgan County BOE - North Berkeley Elementary	Williamson Shriver Archite
Closed	A2009	Calhoun County - Pleasant Hills Elementary Renovation WSG P	Williamson Shriver Archite
Closed	A2011	Berkeley County BOE - Hedgesville High School Addition and R	Williamson Shriver Archite
Closed	A2015	Hardy County BOE - Assessment of Existing MEP Systems	Williamson Shriver Archite
Closed	A2021	Berkeley County BOE - Rosemont Elementary MEP Replacement	Williamson Shriver Archite
Closed	A2031	Pleasants County BOE - Belmont Middle School Commissioning	Williamson Shriver Archite
Closed	A2037	Upshur County BOE - Academy Elementary - Heating System	Williamson Shriver Archite
Closed	A2038	Upshur County BOE - Buckhannon HS - HVAC Renovations	Williamson Shriver Archite
Closed	A2041	Grant County BOE - Petersburg Elementary MEP Evaluation	Williamson Shriver Archite
Closed	A2054	Morgan County BOE - Warm Springs MS - Classroom Addition	Williamson Shriver Archite
Closed	A2055	Shepherd College - Facilities Building	Williamson Shriver Archite
Closed	A2056	Hampshire County BOE - Slainsville Elem. Lighting Upgrade	Williamson Shriver Archite
Closed	A2057	Hampshire County BOE - Romney School Lighting	Williamson Shriver Archite
Closed	A2061	Berkeley County BOE - Musselman MS - Chilled Water Insulatio	Williamson Shriver Archite
Closed	A2066	Barbour County BOE - Phillip Barbour HS Commissioning	Williamson Shriver Archite
Closed	A2078	Berkeley County BOE - Hedgesville HS Renovation	Williamson Shriver Archite
Closed	A2095	Berkeley County BOE - Hedgesville Elem Reno/Addition	Williamson Shriver Archite
Closed	A3016	Roane & Jackson County Vocational Center - Classroom Reno	Williamson Shriver Archite
Closed	A3025	Upshur County BOE - Buckhannon HS Renovation & Addition	Williamson Shriver Archite
Closed	A3028	Berkeley County BOE - Back Creek Intermediate School	Williamson Shriver Archite
Closed	A3029	Berkeley County BOE - Mill Creek Intermediate School	Williamson Shriver Archite
Closed	A3030	Berkeley County BOE - South Middle School	Williamson Shriver Archite
Closed	A3031	Monroe County BOE - Vocational Center Renovations	Williamson Shriver Archite
Closed	A3051	Berkeley County BOE - Musselmann HS Classroom Addition	Williamson Shriver Archite
Closed	A3052	Berkeley County BOE - Musselmann MS Band Room Addition	Williamson Shriver Archite
Closed	A3062	Jackson County BOE - Ravenswood High School Renovation	Williamson Shriver Archite
Closed	A3063	Jackson County BOE - Ripley High School Toilet Renovation	Williamson Shriver Archite
Closed	A3064	Jackson County BOE - Ravenswood Elementary Toilet Renovation	Williamson Shriver Archite
Closed	A3066	Berkeley Springs Jr. High	Williamson Shriver Archite
Closed	A3067	Widmyer Elementary	Williamson Shriver Archite
Closed	A3085	Monongalia County BOE - Cass Mylan Park Elementary	Williamson Shriver Archite
Closed	A3086	Monongalia County BOE - Westwood-Skyview Elementary	Williamson Shriver Archite
Closed	A3087	Monongalia County BOE - Mason Dixon Elementary	Williamson Shriver Archite
Closed	A3088	Monongalia County BOE - Clay Batelle High School	Williamson Shriver Archite
Closed	A3089	Monongalia County BOE - Morgantown High School	Williamson Shriver Archite
Closed	A3090	Monongalia County BOE - University High School	Williamson Shriver Archite

Project Status	Project ID	Project Description	Client
Closed	A4006	Doddridge County BOE - New High School	Williamson Shriver Archite
Closed	A4012	Mingo County BOE - Mingo Central High School	Williamson Shriver Archite
Closed	A4013	Berkeley County BOE - Elevator Addition	Williamson Shriver Archite
Closed	A4014	Lenore - Concessions Building at Athletic Field	Williamson Shriver Archite
Closed	A4015	Lewis County - Concessions Building	Williamson Shriver Archite
Closed	A4018	Taylor County BOE - Flemington Elementary	Williamson Shriver Archite
Closed	A4021	Berkeley County BOE - Mountain Ridge Intermediate School	Williamson Shriver Archite
Closed	A4022	Berkeley County BOE - Martinsburg HS Addition & Elevator Add	Williamson Shriver Archite
Closed	A4023	Taylor County BOE - West Taylor Elementary School	Williamson Shriver Archite
Closed	A4062	Spring Mills Middle School - Air Balance	Williamson Shriver Archite
Closed	A4063	Hedgesville High School - Air Balance	Williamson Shriver Archite
Closed	A4064	Mercer County BOE - Bluefield Middle School Chiller Replacem	Williamson Shriver Archite
Closed	A4065	Mercer County BOE - Princeton Middle School Toilet Renovatio	Williamson Shriver Archite
Closed	A4066	Mercer County BOE - Princeton High School Classroom Addition	Williamson Shriver Archite
Closed	A4071	Hamshire High School - Home Economics Renovation	Williamson Shriver Archite
Closed	A4079	Paw Paw Elementary - Morgan County - HVAC Renovations	Williamson Shriver Archite
Closed	A4083	Hampshire County BOE - Pro Start Kitchen	Williamson Shriver Archite
Closed	A4087	Hampshire County BOE - Capon Bridge Middle School	Williamson Shriver Archite
Closed	A4088	Fairplain Elementary School Addition	Williamson Shriver Archite
Closed	A4100	Upshur County BOE - Buckhannon High School Commissioning	Williamson Shriver Archite
Closed	A4117	Wirt County BOE - Primary Center Addition	Williamson Shriver Archite
Closed	A4121	Berkeley County BOE - Bunker Hill Elementary School	Williamson Shriver Archite
Closed	A4122	Morgan County - Widmyer Elementary Multi-Purpose Room Additi	Williamson Shriver Archite
Closed	A4126	Roane County Tech Center - Classroom Building	Williamson Shriver Archite
Closed	A5002	Jackson County BOE - Cottageville Elem Gym Cooling	Williamson Shriver Archite
Closed	A5003	Jackson County BOE - Ravenswood MS Condensation Problem	Williamson Shriver Archite
Closed	A5004	Mercer County BOE - Princeton Middle School Steam Conversion	Williamson Shriver Archite
Closed	A5018	Spencer Middle School - Grease Trap	Williamson Shriver Archite
Closed	A5027	Chief Logan State Park	Williamson Shriver Archite
Closed	A5048	Mingo County BOE - Kermit K-8 Athletic Facility	Williamson Shriver Archite
Closed	A5056	Putnam County BOE - Winfield HS Additions/Renovations	Williamson Shriver Archite
Closed	A5057	Berkeley County BOE - Millcreek IS Media Center & Dining Add	Williamson Shriver Archite
Closed	A5087	Chief Logan State Park - New Recreation Building	Williamson Shriver Archite
Closed	A6021	Berkeley County BOE - Martinsburg SM School-Dining Room Expa	Williamson Shriver Archite
Closed	A6026	SC Interpretative Center For The Mound	Williamson Shriver Archite
Closed	A6038	Monongalia County BOE - Tab Work	Williamson Shriver Archite
Closed	A6041	Monroe County BOE - Votech Storage Redesign	Williamson Shriver Archite
Closed	A6052	Upshur County BOE - Buckhannon Elementary School	Williamson Shriver Archite

Project Status	Project ID	Project Description	Client
Closed	A6082	Calhoun Gilmer Career Center - MEP Renovations	Williamson Shriver Archite
Closed	A6084	Morgan County BOE - Berkeley Springs HS	Williamson Shriver Archite
Closed	A6089	Taylor County BOE - Grafton HS Auditorium Ceiling Replacemen	Williamson Shriver Archite
Closed	A6093	Hardy County BOE - Moorefield Intermediate School	Williamson Shriver Archite
Closed	A6094	Putnam Co. BOE - Teays Valley Elementary School	Williamson Shriver Archite
Closed	A6095	Pendleton Co. BOE - Brandywine Elementary School	Williamson Shriver Archite
Closed	A6107	South Charleston Wastewater Building Renovation	Williamson Shriver Archite
Closed	A6115	Capon Bridge Middle School Air Balancing	Williamson Shriver Archite
Closed	A7026	Roane Jackson Technical Center - Kitchen Hood Modifications	Williamson Shriver Archite
Closed	A7054	Spencer Primary RTU Replacement	Williamson Shriver Archite
Closed	A7078	Berkeley County BOE - Hedgesville Elementary School	Williamson Shriver Archite
Closed	A7098	Putnam County BOE - Eastbrook Elementary School	Williamson Shriver Archite
Closed	A7107	Putnam County BOE - Winfield High School - Air Balance	Williamson Shriver Archite
Closed	A7127	Ritchie Co. BOE - Ritchie County High School	Williamson Shriver Archite
Closed	A7163	Gilmer County BOE - Glenville Elementary School	Williamson Shriver Archite
Closed	A7167	Monongalia County BOE - University High Sports Complex	Williamson Shriver Archite
Closed	A8074	Mingo County BOE - New Mingo Co High School - HVAC Study	Williamson Shriver Archite
Closed	A8087	Berkeley County BOE - Spring Mills Primary	Williamson Shriver Archite
Closed	A8103	Jackson County BOE - Fairplain Elementary School	Williamson Shriver Archite
Closed	A8105	Jefferson County BOE - Jefferson County Elementary School	Williamson Shriver Archite
Closed	A8106	Putnam County BOE - Scott Teays Elementary School	Williamson Shriver Archite
Closed	A9007	Berkeley County BOE - Eagle School Intermediate	Williamson Shriver Archite
Closed	A9041	Putnam County BOE - Hurricane Town Elementary - 4 Classroom	Williamson Shriver Archite
Closed	A9086	Morgan County BOE - Berkeley Springs HS - Arts & Humanities	Williamson Shriver Archite
Closed	A9100	Monongalia County BOE - Mason-Dixon 6 Classroom Addition	Williamson Shriver Archite
Closed	A9101	Monongalia County BOE - Morgantown H.S. Stadium	Williamson Shriver Archite
Closed	A9102	Monongalia County BOE - University H.S. Fieldhouse Redesign	Williamson Shriver Archite
Closed	B0001	Jefferson County BOE - Blueridge Primary School	Williamson Shriver Archite
Closed	B0002	Berkeley County BOE - Musselman H.S. 20 Classroom Addition	Williamson Shriver Archite
Closed	B0003	Berkeley County BOE - Martinsburg North M.S. 20 Classroom Addition	Williamson Shriver Archite
Closed	B0004	Putnam County BOE - Buffalo High School	Williamson Shriver Archite
Closed	B0005	Putnam County BOE - Winfield Middle School	Williamson Shriver Archite
Closed	B0006	Putnam County BOE - Poca Middle / Elementary School	Williamson Shriver Archite
Closed	B0007	Putnam County BOE - Confidence Elementary School	Williamson Shriver Archite
Closed	B0008	Putnam Cnty BOE - Auxiliary Gymnasiums - Hurricane, Poca, Winfield H	Williamson Shriver Archite
Hold	B0009	Berkeley County BOE - Spring Mills High School	Williamson Shriver Archite
Active	B0015	Monongalia County BOE - Eastwood Elementary School	Williamson Shriver Archite
Closed	B0040	Putnam County BOE - Study for future upgrades.	Williamson Shriver Archite

Project Status	Project ID	Project Description	Client
Closed	B0079	Clay Batelle High School - Mason Dixon Elementary Ball Fields	Williamson Shriver Archite
Closed	B0118	Mingo County BOE - Mingo County HS Athletic Facilities	Williamson Shriver Archite



## JAMES N. KOSINSKI, PE, LEED AP

PRINCIPAL, VICE PRESIDENT  
SENIOR PROJECT MANAGER, MECHANICAL ENGINEERING

Mr. Kosinski's primarily responsible for the design of HVAC systems and their components for all of Tower Engineering's projects. He has experience with the design of numerous types of HVAC systems, including constant and variable air volume air handling, geothermal heat pump and exhaust systems; chilled water and hot water; electric/electronic, pneumatic and DDC control systems.

Jim's design responsibilities include load calculations, equipment selection, system layout, project specifications, cost estimates, direction of project drafting efforts, coordination with other engineering disciplines, and construction administration. Additional responsibilities include system analysis and energy studies, client contact, and project management and scheduling. He has performed energy conservation analyses, evaluated HVAC system performance, and justified the installation of DDC control systems and other energy saving measures. As a Mechanical Engineering Group Leader, Mr. Kosinski coordinates the efforts of a team of staff engineers, designers and CAD operators.

### **West Virginia University**

Current Term Contract  
WVU Tech Interior and Exterior Renovations  
Recreation Center  
Brooks Hall - Lab Renovation  
Honors Hall Dormitories  
Law Building Phase I, II and III  
Parkersburg Applied Technology Center (Parkersburg, WV Campus)

### **Fairmont State University - Fairmont, West Virginia**

Engineering Technology  
Multiple HVAC Systems Studies in Multiple Buildings  
Electro-Optics Center Addition  
Musik Library Renovation

### **Fairmont, West Virginia**

Public Safety Building Renovations

### **Allegheny Energy - Fairmont, West Virginia**

New Operations Center (LEED)

### **Department of Energy - Morgantown, West Virginia**

New Record Storage Facility (LEED)

### **Morgan County Board of Education - Bath, West Virginia**

Berkeley Springs High School Renovation/Addition

### **EDUCATION**

Bachelor Architectural Engineering  
The Pennsylvania State  
University, 1989

### **REGISTRATION**

PE, Pennsylvania  
[REDACTED]

PE, West Virginia 016993  
[REDACTED]

PE, New York

PE, Maryland

NCEES Registered

LEED Accredited Professional  
2009

### **AFFILIATION**

American Society of Heating,  
Refrigeration & Air Conditioning  
Engineers (ASHRAE)





## THOMAS J. GORSKI, PE, LEED AP

### PRINCIPAL, PRESIDENT MECHANICAL ENGINEERING DEPARTMENT HEAD

Mr. Gorski's primary responsibilities are the design of HVAC systems and their components for schools, universities, commercial and light industrial office buildings, laboratory buildings, health care facilities, and military facilities. He has designed HVAC systems including constant and variable air volume, air handling and exhaust systems; chilled water and hot water systems and steam distribution systems; electric/electronic control, pneumatic control and DDC systems.

Tom's design responsibilities include load calculations, equipment selection and system layout, project specifications, cost estimates, direction of the project drafting effort, coordination with architectural and other engineering disciplines, and construction administration. He also performs system analysis and energy studies, maintains client contact, and supervises the engineering effort of the Mechanical Engineering groups.

#### REPRESENTATIVE EXPERIENCE

##### **Twin Falls State Park - Mullens, West Virginia**

Renovation and Expansion

##### **Canaan Valley Resort State Park - Davis, West Virginia**

Renovation and Expansion

##### **Cacapon State Park Lodge - Berkeley Springs, West Virginia**

Renovation and Expansion **BridgeValley Community and Technical College**  
Restoration/Renovation

##### **West Virginia University - Morgantown, West Virginia**

Current Term Contract

WVU Tech - Interior and Exterior Renovations

New Intermodal Transportation Center

New Student Recreation Center

Student Recreation Center Building Commissioning

Caperton Center for Applied Technology

Parkersburg Applied Technology Center (Parkersburg, WV Campus)

##### **Fairmont, West Virginia**

Allegheny Energy New Operations Center

##### **Fairmont State University - Fairmont, West Virginia**

Engineering Technology Building

#### EDUCATION

BS Mechanical Engineering  
Penn State University 1982

#### REGISTRATION

PE, Pennsylvania

P [REDACTED]

PE, West Virginia

P [REDACTED]

PE, New York

NCEES Registration

LEED Accredited Professional  
2009

#### AFFILIATION

American Society of Heating,  
Refrigeration & Air Conditioning  
Engineers (ASHRAE)  
Pittsburgh Chapter; Past President







# T. STEFFANIE BAKO, PE, LEED AP

PRINCIPAL, DEPARTMENT HEAD  
ELECTRICAL ENGINEERING DEPARTMENT

Mrs. Bako provides engineering services for the design of office buildings, educational facilities, municipal buildings, community/recreational buildings and commercial facilities. Her primary responsibility is for the preparation of electrical opinions of cost, technical specifications, engineering drawings, field observation, and coordination with architectural and other engineering disciplines.

Steffanie's design responsibilities include lighting layout and fixture selection, including calculations and system coordination studies and calculations; computer rooms and associated support facilities; fire alarm and detection systems; emergency power, public address, audio-visual, security and closed circuit television systems. Additional responsibilities include client contact, field observation, and project management.

**EDUCATION**  
BS Electrical Engineering  
Case Western Reserve University  
1997

**REGISTRATION**  
Professional Engineer  
PA - [REDACTED]  
OH - [REDACTED]  
WV - [REDACTED]

LEED Accredited Professional  
2009

**AFFILIATION**  
Illuminating Engineering Society  
of North America (IES). Treasurer  
Pittsburgh Section

**AWARD**  
IES Design Award of Merit 2003,  
Ross Twp. Municipal Complex  
Pittsburgh, Pennsylvania

## REPRESENTATIVE EXPERIENCE

**Army National Guard - Buckhannon and Fairmont, West Virginia**  
New Readiness Centers

**City of Fairmont - Fairmont, West Virginia**  
New Parking Garage  
Municipal Building Renovations

**Fairmont State University - Fairmont, West Virginia**  
Engineering Technology Building  
Musick Library Addition and Renovations

**Whitehall Volunteer Fire Company - Whitehall, Pennsylvania**  
New Fire Company Building

**Canaan Valley Institute - Davis, West Virginia**  
New Office Building (LEED Silver)

**West Virginia High Tech Consortium Office Building - Fairmont, West Virginia**  
Tenant Fit-ups

**Twin Falls State Park Resort - Mullens, West Virginia**  
Lodge Expansion

**BridgeValley Community and Technical College**  
Restoration and Renovation





Years in industry: 19

Years at Tower: 19

**Academic Training:**

BS, Mechanical Engineering  
Penn State University 1997

**Professional Registrations**

Professional Engineer, PA

PE-██████████ 2003

Certified in Plumbing

Engineering (CIPE), 1998

LEED Accredited Professional  
2009



## MICHAEL S. PLUMMER, PE, CIPE, LEED AP

PRINCIPAL, SENIOR PROJECT MANAGER  
PLUMBING & FIRE PROTECTION ENGINEERING DEPARTMENT HEAD

Mr. Plummer is primarily responsible for the design of plumbing and fire protection systems and their components for educational, governmental, and commercial buildings. His plumbing duties include the design and layout of all domestic hot and cold water, sanitary drainage and storm water management systems. He is also responsible for the natural gas piping systems along with specialty systems involving laboratory or hospital gases. Mike's fire protection responsibilities include the design of water supply and pumping systems involving fire mains and sizing of fire pumps, the layout of standpipe and sprinkler zone locations, sprinkler head placements and reviewing hydraulic calculations for contractor designed sprinkler systems. He is LEED Certified and designs all his projects with sustainability in mind.

Mike's duties include preparation of project specifications, cost estimates, project management, and coordination with architectural and other engineering disciplines. He also performs construction administration duties including review of submittals, preparation of punch lists, and field problem solving, as well as supervising the engineering efforts of the Plumbing and Fire Protection Department.

### Similar Project Experience

**WVARNG Fairmont, Armed Forces Reserve Center - Fairmont, WV**  
New administration and maintenance facility

**Allegheny Energy, Fairmont, WV**  
New administration, training and maintenance facility

**American Eagle Outfitters, Pittsburgh, PA**  
New Corporate Headquarters

**Department of Energy, Morgantown, WV**  
New record storage facility

**Hampton County Municipal Complex, Allison Park, PA**  
Evaluation of Building Systems

**Cranberry Township, PA**  
Cranberry Wood Business Park  
Regional Learning Alliance  
Verizon Wireless Call Center

**The Conair Group, Inc., Pittsburgh, PA**  
New Headquarters and Research & Development Center

# Project Staffing

	Name /Title /Years with Firm	Role in Project
	<b>Ted A. Shriver</b> AIA / LEED AP President / Architect  32 Years	Partner-in-charge/Quality Control / Business Manager / Construction Administration
	<b>Greg Williamson</b> AIA / LEED AP Vice-President / Architect  33 Years	Partner-in-charge/Design
	<b>Don Beyer</b> PE Engineer / Production Manager  26 Years	Structural Design/Quality Control
	<b>Greg Martin</b> AIA Project Architect  7 Years	Design / Document Production / Consultant Coordination
	<b>Andrew Crawford</b> AIA Assoc. Intern Architect  6 Years	Document Production / Building Information Modeling Manager

# Ted A. Shriver

AIA / LEED AP BD+C / REFP  
Architect / President



**T**ed Shriver is a registered architect and President of Williamson Shriver Architects. In addition to his role as firm partner, he is additionally responsible for the office-wide coordination and production of contract documents. He brings to the firm 30 plus years of architectural experience, and his primary responsibilities include assurance that appropriate production and support resources are applied to each project.

Mr. Shriver's career began in 1979 with other local firms, but he has been with the firm since 1984 with partner Greg Williamson.

Office management, marketing and construction administration on smaller scope projects add to his daily responsibilities. He

also oversees the firm's computer system, including evaluation and installation of new technology. He has extended this computer expertise to an understanding of the utilization and implementation of technology in school facilities and attends the Council of Educational Facility Planners' Technology Conferences. Since 2005, Mr. Shriver has focused on establishing guidelines for our designs on implementing safe schools and monitoring systems.

Mr. Shriver is active in the Council of Educational Facility Planners International especially in the Southeast Region. In 2003, he was one of the founding members of the West Virginia Chapter and served as their President from 2004-2007. He has also served as the Southeast Director since 2002.

**Education:**

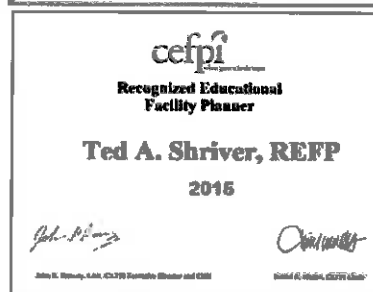
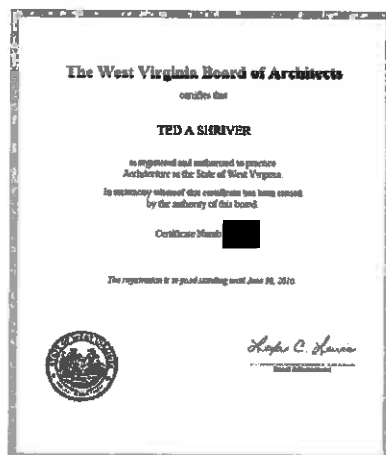
Fairmont State College, 1979  
A.S. Architectural Technology  
South Charleston High School 1977

**Registration:**

Architect, WV  
Architect OH ( [REDACTED] )  
Architect MD ( [REDACTED] )  
Architect PA ( [REDACTED] )  
Green Building Certification Institute  
LEED Accredited Professional  
(AP BD+C)

**Affiliations:**

West Virginia State Fire Commission  
2009-Present  
Code / Regulatory Committee, Chair  
2009-Present  
American Institute of Architects  
WV Chapter  
Executive Committee 2008-2013  
Treasurer 2008-2013  
Association for Learning Environments  
Southeast Region  
Alternate Director 2002-2003  
Region Director 2003-Present  
Recognized Educational Facility  
Professional Certification (REFP)  
Contractors Association of WV  
Kanawha Valley Builders Association  
International Code Council  
National Fire Protection Association  
South Charleston Board of Health  
United States Green Building Council  
Building Codes Plan Examiner  
2015 - Present



# Gregory A. Williamson

AIA / LEED AP / CEFP  
Architect / Vce President

**G**reg Williamson attended the University of Tennessee, where he received his bachelor of architecture degree in 1981. His professional career began at Sverdrup and Parcel and later with Donald L. Moses Associates, both in Charleston. In 1983 he joined Gandee Thomas and Sprouse as an architect and project designer and obtained his West Virginia registration as an architect in 1985.

In 1994, along with Ted Shriver, Mr. Williamson acquired the firm from founder Kent Gandee. As design partner, Mr. Williamson has designed such prominent and well-received projects as the LEED Gold Spring Mills Primary School, Caperton Center for Applied Technology at WVU-Parkersburg, and the Lodge and Conference Center at Chief Logan State Park. Additionally, he represented Williamson Shriver Architects in their role as associated architect on two prominent

commissions in Charleston, the United States Federal Courthouse with architect SOM of New York City, and the Clay Center for the Arts and Sciences with KSK Architects of Philadelphia.

Mr. Williamson is a former member of the WV Board of Architects, appointed by Governor Underwood in 1999. He has active registrations in five states and is a holder of an NCARB certificate. Mr. Williamson is active in the WV Chapter of the American Institute of Architects and serves on several standing committees including the Scholarship Committee, the Architect/Contractors Task Force, and the WV Foundation for Architecture.

In his spare time, Mr. Williamson is a musician and songwriter and enjoys recording original music in his home studio.



**Education:**

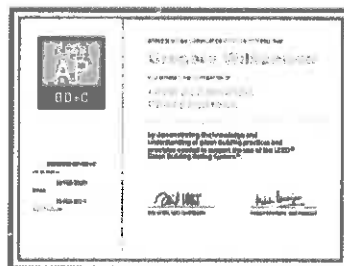
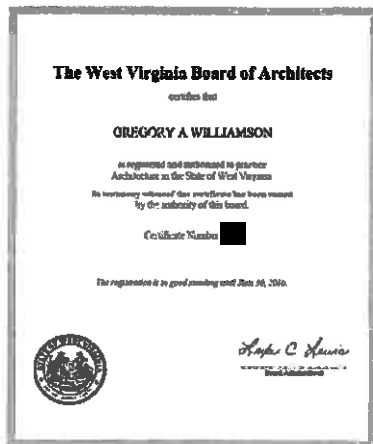
University of Tennessee, 1981  
B. Architecture  
West Virginia State College, 1978  
Winfield (WV) High School 1976

**Registration:**

Architect, WV  
Architect, KY  
Architect, MD  
Architect, VA  
Architect, OH  
NCARB Certified  
Green Building Certification Institute  
LEED Accredited Professional (AP)

**Affiliations:**

West Virginia Board of Architects 1999-2015  
American Institute of Architects  
AIA - WV Chapter  
President 1994 & 1995  
WV Foundation for Architecture  
Trustee / Secretary 2007-present  
Contractors Association of WV  
Architects/Contractors Task Force  
Association for Learning Environments  
Member  
Certified Educational Facility  
Professional (CEFP)  
Putnam Co. Planning Commission  
Member - 2016 to present  
Putnam Co. Bd. of Zoning Appeals  
Member - 1997 to 2001  
US Green Building Council  
Member





## Gregory I. Martin

AIA / NCARB

Project Architect

**G**reg Martin received his Masters of Architecture Degree from Virginia Polytechnic Institute and State University in 2008 after graduating from Fairmont State University in 2005. He began his professional career with Marks-Thomas Architects in Baltimore MD, and came to Williamson Shriver Architects in October of 2008. In early 2016, he successfully concluded his Architectural Registration Examination and became licensed to practice architecture in WV.

As Project Architect, he specializes in building design and

production / coordination of construction documents for projects of all types and sizes. His project portfolio with Williamson Shriver Architects includes Poca Elementary/Middle School, Leading Creek Elementary School, the Ronald McDonald House in Charleston, Little Creek Golf Course Clubhouse, and the LEED candidate Giimer Elementary School in Glenville completed in 2016.

In addition to his professional career, Mr. Martin is an accomplished craftsman, model maker, and sculptor in wood and other media.



**Education:**

Virginia Polytechnic Inst. & State Univ.  
Master of Architecture - 2008  
Fairmont State University  
B. S. - Architectural Eng Tech - 2005

**Registration:**

Architect, WV [REDACTED]  
NCARB Certified [REDACTED]

**Previous Employment:**

Marks-Thomas Architects  
2008  
Thomas Koontz Architect, P.C.  
2006 (Summer Intern)  
WYK Associates, Inc.  
2003-2005

**Affiliations:**

American Institute of Architects  
AIA Member  
American Institute of Architects WV  
Chapter

## Andrew Crawford

AIA Associate

Intern Architect / Project Manager

Originally from St. Albans, WV, Andrew Crawford attended the University of Tennessee School of Architecture, completing his Bachelors of Architecture Degree in 2007. After graduating, he relocated to Nashville, Tennessee where he interned at Davis Stokes Collaborative.

Since joining Williamson Shriver Architects in 2010, Andrew has specialized in building design and production / coordination of construction documents for

projects of all types and sizes. He has served as project manager on many successfully completed projects included Teays River Station Office Building, East Hardy High School, Analabs Addition and Renovation and the Robert C. Byrd Health Science Center Renovation on the campus of Charleston Memorial Hospital.

In addition to his professional career, Andrew is an avid power-lifter.



**Education:**

University of Tennessee - Knoxville  
B. Architecture - 2007

**Previous Employment:**

Davis Stokes Collaborative  
Nashville TN 2008-2009

Studio Four Design  
Knoxville, TN 2007-2008



**WEST VIRGINIA  
STATE TAX DEPARTMENT  
BUSINESS REGISTRATION  
CERTIFICATE**

**ISSUED TO:  
TOWER ENGINEERING, INC.  
115 EVERGREEN HEIGHTS DR 400  
PITTSBURGH, PA 15229-1346**

**BUSINESS REGISTRATION ACCOUNT NUMBER: 2319-5432**

**This certificate is issued on: 08/13/2015**

*This certificate is issued by  
the West Virginia State Tax Commissioner  
in accordance with Chapter 11, Article 12, of the West Virginia Code*

*The person or organization identified on this certificate is registered  
to conduct business in the State of West Virginia at the location above.*

This certificate is not transferrable and must be displayed at the location for which issued. This certificate shall be permanent until cessation of the business for which the certificate of registration was granted or until it is suspended, revoked or cancelled by the Tax Commissioner.

Change in name or change of location shall be considered a cessation of the business and a new certificate shall be required.

**TRAVELING/STREET VENDORS:** Must carry a copy of this certificate in every vehicle operated by them.  
**CONTRACTORS, DRILLING OPERATORS, TIMBER/LOGGING OPERATIONS:** Must have a copy of this certificate displayed at every job site within West Virginia.

# State of West Virginia



## Certificate

*I, Natalie E. Tennant, Secretary of State,  
of the State of West Virginia, hereby certify that*

**TOWER ENGINEERING, INC.**

has filed the appropriate registration documents in my office according to the provisions of the West Virginia Code and hereby declare the organization listed above as duly registered with the Secretary of State's Office.

*Given under my hand and  
the Great Seal of West Virginia  
on this day of  
August 11, 2015*



*Natalie E. Tennant*

*Secretary of State*

# Licensure Verification

Search: Details

		Name:
	WV Professional Engineer:	

JAMES N KOSINSKI

PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 10/25/2006

PE Expiration Date: 12/31/2016

	WV Engineer Intern:	
--	---------------------	--

EI Certification Number:

EI Issue Date:

	Primary Address of Record:	
	Primary Employer of Record:	

115 EVERGREEN HEIGHTS DRIVE  
PITTSBURGH, PA 15229

TOWER ENGINEERING  
115 EVERGREEN HEIGHTS DRIVE  
PITTSBURGH, PA 15229

# Licensure Verification

## Search: Details

	Name:
WV Professional Engineer:	

THOMAS J GORSKI

PE License Number: [REDACTED]

PE License Status: Active

PE Issue Date: 07/09/1993

PE Expiration Date: 12/31/2018

WV Engineer Intern:	
---------------------	--

EI Certification Number:

EI Issue Date:

Primary Address of Record:	
Primary Employer of Record:	

[REDACTED]

TOWER ENGINEERING, INC.  
115 EVERGREEN HEIGHTS DRIVE SUITE 400  
PITTSBURGH, PA 15229

# The West Virginia Board of Architects

certifies that

**GREGORY ISAAC MARTIN**

is registered and authorized to practice  
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued  
by the authority of this board.

Certificate Number [REDACTED]

*The registration is in good standing until June 30, 2017.*



*Leya C. Lewis*

Board Administrator

# The West Virginia Board of Architects

certifies that

**GREGORY A WILLIAMSON**

is registered and authorized to practice  
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued  
by the authority of this board.

Certificate Number [REDACTED]

*The registration is in good standing until June 30, 2017.*



*Leya C. Lewis*

Board Administrator

# The West Virginia Board of Architects

certifies that

**TED A SHRIVER**

is registered and authorized to practice  
Architecture in the State of West Virginia.

In testimony whereof this certificate has been issued  
by the authority of this board.

Certificate Number [REDACTED]

*The registration is in good standing until June 30, 2017.*



*Leya C. Lewis*

Board Administrator



GREEN BUSINESS CERTIFICATION INC. CERTIFIES THAT

**Ted Shriver**

HAS ATTAINED THE DESIGNATION OF

**LEED AP<sup>®</sup> Building Design + Construction**

by demonstrating the knowledge and understanding of green building practices and principles needed to support the use of the LEED green building program.

\_\_\_\_\_  
CREDENTIAL ID

06 FEB 2010

ISSUED

05 FEB 2018

VALID THROUGH

Handwritten signature of Gail Vittori in black ink.

\_\_\_\_\_  
GAIL VITTORI, GBCI CHAIRPERSON

Handwritten signature of Mahesh Ramanujam in black ink.

\_\_\_\_\_  
MAHESH RAMANUJAM, GBCI PRESIDENT