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who we are. . .

Multi-Discipline Engineering and Consulting Services

We are a small Professional Engineering and Consulting company comprised of people with vast experience in many technical and engineering disciplines for industrial and commercial work. We have been in business since March 2000 and are licensed in North Carolina, South Carolina, Tennessee and Oklahoma.

Our Mission ...

To provide the highest quality Commercial, Industrial, and System Integration engineering and design services that meet our customer's requirements by:

Working side by side with each customer to insure complete communication and understanding of requirements

Meeting all deadlines while maintaining the highest standards

Holding customer costs to a minimum through value added services at low cost

Our Principals ...

We believe that the way we operate our business and provide services to our clients should be a reflection of our Christian beliefs:

“What ever you do, work at it with all your heart, as working for the Lord, not for men” (Colossians 3:23)



what we do....

Located in the mountains of Western North Carolina and Foothills of Tennessee, we provide Industrial, Commercial and System Integration engineering services in North Carolina, South Carolina, and Tennessee . Our Principal Engineers have over one hundred years of combined experience in Mechanical, Electrical, Civil/Structural, Instrumentation, and Control engineering:

- **Civil / Structural**
- **HVAC**
- **Mechanical**
- **Electrical**
- **Instrumentation**
- **Chemical Plants**
- **Fiber Processing**
- **Utility/Power**
- **FDA Process Validation**
- **Machine Design**
- **Process Development & Integration**
- **Drafting–AutoCAD® & Microstation®**
- **Cost Estimation**
- **Automotive**
- **Surveying**



scope of services ...

civil / structural

ESS offers a full range of civil and structural engineering services to Industrial and Commercial markets. Our engineering capabilities extend from the most basic planning functions to the most advanced engineering calculations. We are experienced in the latest design codes and construction technologies.

**Innovative Solutions....
to your Engineering Needs**

Civil Engineering	Structural Engineering
Grading Plans	Shallow & Deep Foundations
Site Drainage	Structural Steel
Erosion Control	Reinforced Concrete Structures
Storm and Sanitary Sewers	Timber Structures
Roads	Dynamic Analysis
Railroads	Blast Resistant Structures
Truck / Rail Loading Facilities	Failure Analysis
Secondary Containment	Retaining Wall Systems
Asphalt & Concrete Pavements	Fall Protection Applications
	Finite Element Analysis
	Offshore Structures
	Pre-Engineered Bldg
	Foundations

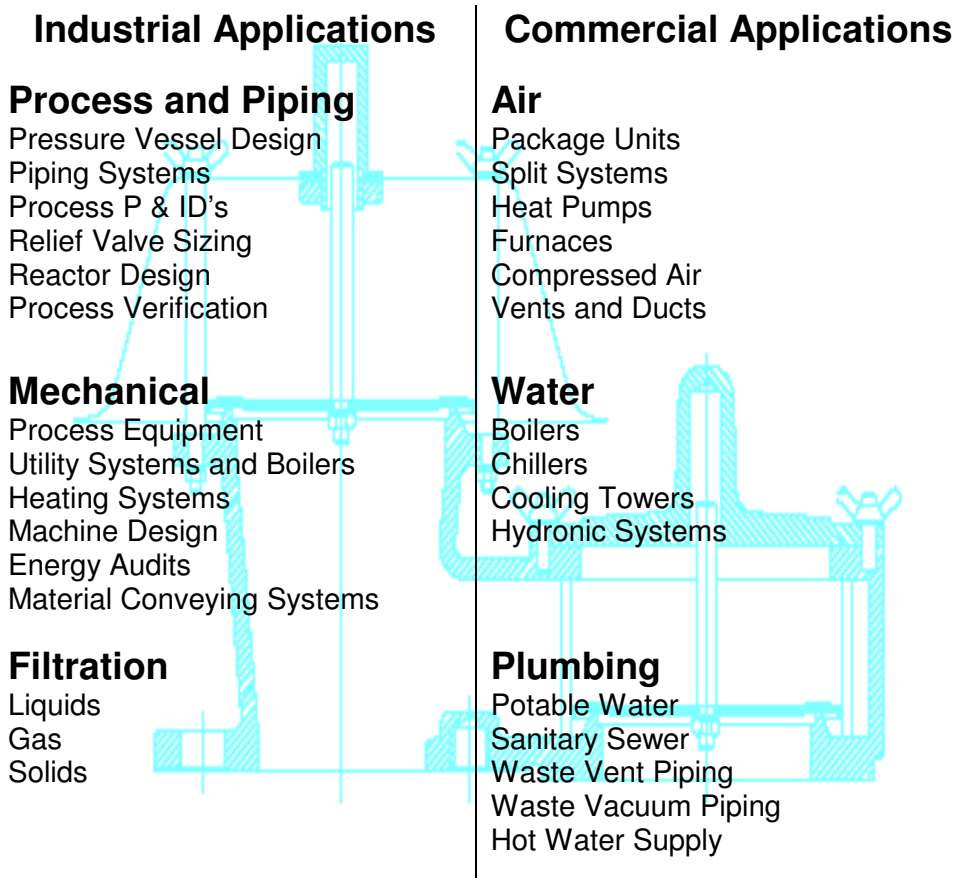


scope of services ...

mechanical

ESS provides a complete range of mechanical and piping services to equipment manufacturers, operating companies, commercial properties, educational facilities and the chemical and fiber industry. Our personnel are experienced in design of the following systems:

**Innovative Solutions....
to your Engineering Needs**





scope of services ...

electrical

ESS provides electrical and instrumentation services to meet the needs of our clients in both the commercial and industrial markets. We have design capability and experience in the following areas:

**Innovative Solutions....
to your Engineering Needs**

Industrial Applications	Commercial Applications
<p>Electrical Power Distribution</p> <ul style="list-style-type: none"> MCCs Distribution feeders Switchgear Transformers Motor Starters Fault current analysis Field analysis and troubleshooting 	<p>Lighting Design</p> <ul style="list-style-type: none"> Proper lighting level Energy saving Dimming systems/controls Stage lighting
<p>PLC and Microprocessor Based Controls</p> <p>DCS Engineering</p>	<p>Power Design and Distribution</p> <ul style="list-style-type: none"> Panel load analysis Service entrance loading analysis Ensure all panels and wiring are properly sized <p>Emergency Systems</p> <ul style="list-style-type: none"> Fire Alarm Emergency egress/exit lighting Backup Emergency power <p>Security Systems</p> <p>Low-Voltage wiring</p> <p>Building Management Systems</p>





scope of services ...

systems integration

Today's competitive organizations are utilizing the concept of "Core Staffing", choosing to outsource support functions. This use of a flexible workforce... one that complements your existing staff while meeting your changing needs, enables your key personnel to stay focused on strategic business activities. ESS has business experience in the areas listed below. Call us.

Project Management
Equipment maintenance
Asset recovery
CAD Drafting
SAP
Maintenance Process Improvements
Estimating
Training & Education
Manufacturing/light industrial



key people...

Kyle Loseke, P.E.



Although our youngest Principal Engineer, Kyle serves as President of ESS and has proven to be a key driver in the continued success of our company. In addition to his administrative responsibilities, Kyle leads the commercial portion of our business. Kyle received his Masters Degree in Mechanical Engineering from North Carolina State University in 1991. For the next 10 years he held various engineering and maintenance positions with BASF Corporation. To fill a need within ESS, Kyle has migrated heavily toward the electrical engineering field and now serves as our Principal Electrical and Mechanical Engineer for commercial projects. Kyle enjoys renovation projects and is involved in numerous activities at North Asheville Baptist Church.

Ron Blaine, P.E.



Ron has been with ESS from the beginning as Principal Engineer and part owner. With a strong background in stationary and rotating equipment, process piping, material handling, and reliability engineering, Ron leads our efforts in the Industrial market. A graduate of North Carolina State University with a BS in Mechanical Engineering, he has held positions with Carter-Web Corporation, Carolina Power & Light, and BASF Corporation. In addition to his role in the Industrial arena, Ron has experience with HVAC and plumbing for various commercial and educational facilities. An avid road and mountain biker, he enjoys participating in cycling events with his wife. Ron is a member of Biltmore Baptist Church.



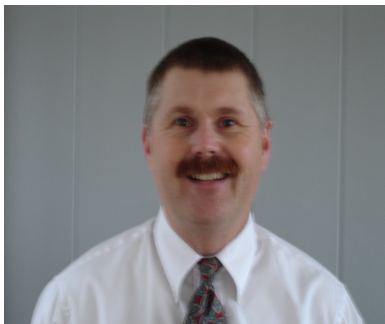
key people...

Tom Ray, P.E.



As founding partner and Principal Engineer, Tom is the most experienced member of the ESS staff with over 35 years of mechanical engineering practice to his credit. Tom specializes in the design and specification of mechanical equipment. His many years of experience make Tom a valuable resource during plant startups or modifications to existing equipment. Previously, Tom has twice owned engineering companies as well as a John Deere dealership. Over the years Tom has been involved in missionary activities with trips to Mexico, Ecuador, Brazil, Belize as well as activities here in the US.

K. David Martin, P.E.



A recent addition to the ESS Staff as Principal Engineer and Part Owner, David brings over 20 years experience in civil and structural design of commercial and industrial facilities. Before joining ESS, David served as Manager of Civil Engineering for BASF Corporation. During his 14 years with BASF, He served in both plant and corporate engineering positions at various sites in the US. David has also held structural and project engineering positions within the construction, design, and facility services fields. David brings to the table strong technical skills along with a practical and common sense approach to the application on engineering principals. David attends the Oneida Church of Christ.



staffing strategy...

CORE EXPERTISE -

ESS MAINTAINS LICENSED PROFESSIONAL ENGINEERS IN ALL MAJOR DISCIPLINES:

**CIVIL
STRUCTURAL
MECHANICAL
ELECTRICAL**

SUPPORT STAFF -

TO SUPPLEMENT OUR NORMAL WORK FORCE, ESS UTILIZES EXPERIENCED FULL AND PART-TIME RESOURCES WHO HAVE PROVEN EXPERTISE IN THE COMMERCIAL AND INDUSTRIAL SECTORS. TYPICAL PROJECT SPECIFIC RESOURCES INCLUDE:

**CAD OPERATORS
PIPING ENGINEERS
DESIGNERS
INSTRUMENT ENGINEERS
PROJECT ENGINEERS**

ALLIANCE PARTNER -

WE HAVE FURTHER LEVERAGED OUR ABILITY TO HANDLE PEAK MANNING FOR COMMERCIAL AND INDUSTRIAL PROJECTS BY ESTABLISHING AN ALLIANCE WITH A ME&P ENGINEERING FIRM LOCATED IN SOUTH CAROLINA. THE SEAMLESS INTEGRATION OF **ESS** AND OUR ALLIANCE PARTNER HAS INCREASED OUR FLEXIBILITY AND STAFFING CAPABILITY TO MEET DEMANDING SCHEDULES AND EXECUTE LARGER PROJECTS.



how to reach ESS...

THE NEXT TIME YOU HAVE A NEED FOR VALUE-ADDED ENGINEERING SERVICES CONTACT US AT ONE OF OUR LOCATIONS LISTED BELOW:

MAIN OFFICE

P.O. Box 18163
Asheville, North Carolina 28814
TEL: (828) 768-0450
FAX: (864) 335-9888

BRANCH OFFICE

P.O. Box 4834
Oneida, Tennessee 37841
TEL: (615) 469-5145
FAX: (615) 301-8550

IF YOU NEED TO SPEAK TO SOMEONE AFTER NORMAL BUSINESS HOURS, PLEASE CONTACT ONE OF OUR PRINCIPAL ENGINEERS:

Commercial applications.....

contact **Kyle Loseke** at (828) 768-0450

Industrial applications....

contact **Ron Blaine** at (828) 768-0451

Equipment Design applications....

contact **Tom Ray** at (828) 768-0452

Civil/Structural applications....

contact **David Martin** at (828) 768-0457



typical client list...

INDUSTRIAL CLIENTS:

- | | |
|---------------------------|----------------------|
| ➤ BASF CORPORATION | <i>CHEMICALS</i> |
| ➤ COLBOND | <i>FIBERS</i> |
| ➤ LENZING | <i>FIBERS</i> |
| ➤ HONEYWELL | <i>FIBERS</i> |
| ➤ ADVANCED SUPERABRASIVES | <i>MANUFACTURING</i> |
| ➤ US FILTER | <i>FILTRATION</i> |
| ➤ SILVER-LINE PLASTICS | <i>MANUFACTURING</i> |

COMMERCIAL CLIENTS:

- NORTH ASHEVILLE BAPTIST CHURCH
- ASHEVILLE-BUNCOMBE TECHNICAL COMMUNITY COLLEGE
- REYNOLDS BAPTIST CHURCH
- ROBINS & MORTON CONSTRUCTION COMPANY
- GLAZIER ARCHITECTURE
- PROFESSIONAL BUSINESS INTERIORS
- COMFORT INN
- MAGGIE VALLEY RESTAURANT
- WILD WING CAFE
- CALVARY CHAPEL
- EMMANUEL CATHEDRAL CHURCH