

EnSafe Inc. is a global professional services firm providing engineering, environmental, health & safety, and technology services to industry and government clients worldwide. Our dedication to the stewardship of our clients' resources is best explained by one of our longstanding clients: "EnSafe personnel always think about the issues as if they were in your shoes as owners of the business." Regulators know us as technically competent and appropriately assertive in representing our clients' best interests. What really sets us apart is our outside-the-box thinking that leads to innovative and cost-effective solutions.

ENVIRONMENTAL MANAGEMENT & PLANNING

- Compliance Auditing
- Cost Estimating for Financial Reserves
- Due Diligence / Mergers & Acquisition Support
- Emergency Response & Preparedness
- Environmental Compliance
- Environmental Management Systems (EMS) / ISO14000
- Environmental Training
- Permitting
- Phase I ASTM / All Appropriate Inquiry (AAI) / Phase II Environmental Site Assessments
- Regulatory Interpretation / Negotiations

DESIGN ENGINEERING

- Land Development / Site Planning
- Landfill Design / Solid Waste
- Water / Wastewater
- Watershed / Storm Water Management

TECHNOLOGY

- Software Development
- Geographic Information Systems
- Network Infrastructure / Databases and Reporting

HEALTH & SAFETY

- Occupational Safety and Health Administration (OSHA) Compliance
- Industrial Hygiene / Indoor Air Quality Assessments
- Health & Safety Training
- Process Safety Management
- Safety Management Systems (VPP / OHSAS 18001 / ANSI Z10)
- Construction Safety Support
- Electrical Safety / Lockout/Tagout
- Fire Protection and Life Safety Engineering
- Machine Guarding Risk Assessments
- Confined Space Hazard Assessments

ENVIRONMENTAL RESTORATION

- Site Investigation
- Risk Assessment
- Remediation
- Decontamination / Decommissioning

NATURAL & WATER RESOURCES

- National Environmental Policy Act (NEPA)
- Ecological Resources Management & Planning
- Wetlands Delineation / Mitigation / Banking
- Stream Alteration / Restoration

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- Over 370 employees
- Locations coast to coast across the U.S.
- Financially stable over 38 years
- #125 ENR Top 200 Environmental Firms 2018

EnSafe Edge

- Cost-Effective, Custom Solutions
- Technical Expertise and Experience
- Award-Winning Technologies

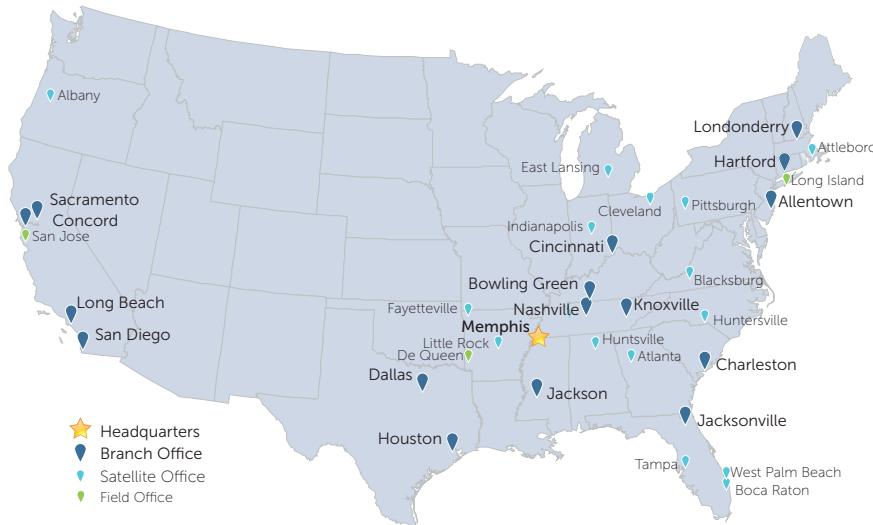
Technical Expertise

- Biologists / Chemists
- Certified Hazardous Materials Managers (CHMM)
- Certified Industrial Hygienists (CIH)
- Certified Safety Professionals (CSP)
- Computer Specialists (GISP, Application Developers)
- Ecologists / Geophysicists
- Licensed Environmental Professionals (LEP)
- Microsoft Certified Professionals
- Professional Engineers (PE)
- Professional Geologists (PG)
- Professional Wetland Specialists (PWS)
- Project Management Professionals (PMP)
- Qualified Hydrologic Professionals (QHP)
- Risk Assessors (Human Health & Ecological)

Contact Us

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- ★ Headquarters
- Branch Office
- Satellite Office
- Field Office

Sound engineering design starts with a focused program phase to understand project goals, constraints, and risks. Once identified, these elements are incorporated into the design and checked from design development, to construction documents, and through construction. EnSafe's team of experienced engineers is committed to developing designs that are site-specific solutions to accomplish the client's long- and short-term goals.

CIVIL ENGINEERING

- Storm Water Management
- Storm Sewer Design
- Hydrology & Hydraulic Studies
- Site Grading and Drainage
- Storm Water Detention/Retention Basin
- Flood Plain/Way Studies and Mapping
- Sustainable Storm Water Design
- Bank and Stream Stabilization
- Water Resources Management & Planning
- Solid Waste Management / Landfill Design
- Traffic Controls
- GIS Mapping
- Construction Management & Observations

WATER / WASTEWATER TREATMENT

- Waste Stream Characterization & Minimization
- Water Treatment, Storage, & Distribution Systems
- Flow/Monitoring/Capacity Studies
- Wastewater Collection & Treatment
- Wastewater Treatment Plant / Facility Design
- Biosolids Management
- Supervisory Control & Data Acquisition (SCADA)
- Sanitary Sewer & Lift Station Design
- Process Troubleshooting & Optimization
- NPDES Permitting
- Permit Negotiation
- System and GIS Mapping

ENVIRONMENTAL

- Wetland and Stream Delineation
- Wetland and Stream Mitigation Plans
- 401 and 404 Permitting
- Construction NPDES Permitting and Erosion Control Plans
- NEPA

SYSTEM OPTIMIZATION

- Optimization Evaluations
- Improved Reliability of Systems
- Technology Evaluation & Comparison
- Construction Cost Estimating
- Decision Cost Analysis
- Operating Cost Reduction
- Permitting & Compliance

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Cradle to grave – from conceptual to detail design, during contract bid/award, and through construction.

No matter the delivery method – design-bid-build, design-build, or construction-at-risk management.

Technical Expertise

- Civil Engineers
- Environmental Engineers
- Sanitary Engineers
- Chemical Engineers
- Flood Plain Managers
- Wetland Scientists
- Biologists

Clients

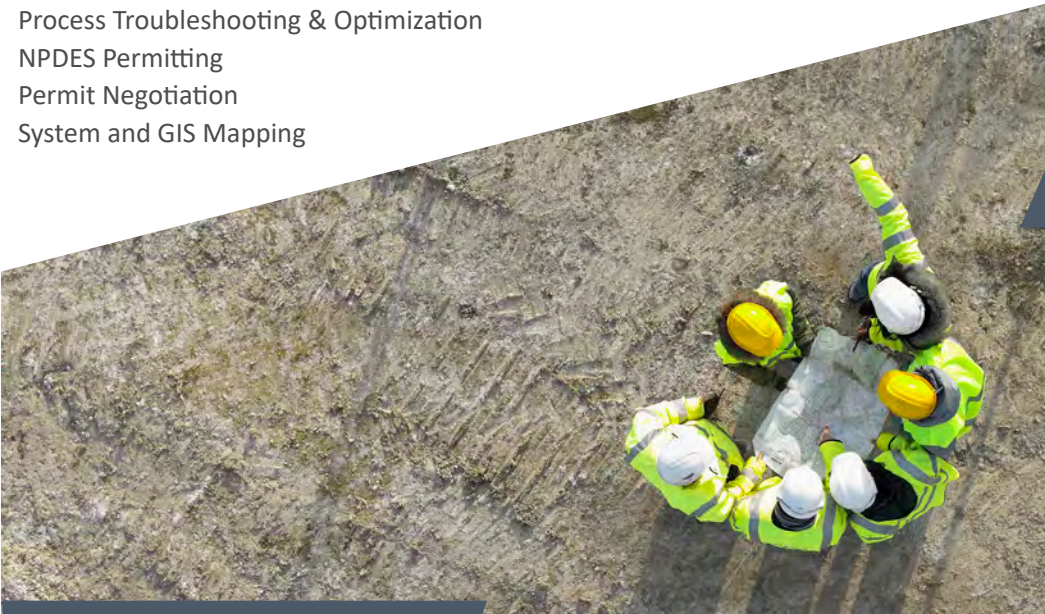
- City of Memphis
- Shelby County Government
- Arkansas Dept of Environmental Quality
- U.S. Navy
- Tennessee Valley Authority
- Weyerhaeuser Co.
- Helena Chemical
- United Technologies Corporation

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Applying Innovation and Creativity to Compliance and Permitting Challenges

Environmental stewardship requires robust management and planning. Our diverse staff of environmental specialists are ready to apply innovation and creativity to whatever challenges your business currently faces within the myriad of local, state, and federal regulations. Whether we are charged with evaluating the compliance status of an industrial facility, quantifying environmental liabilities and risks, or assessing properties for real estate transactions, we are committed to providing you with pragmatic, cost-effective strategies for maintaining compliance, minimizing liabilities, and improving environmental performance.

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REGULATORY COMPLIANCE AUDITS

Corporate Audit Programs, integrating RCRA, CWA, CAA, TSCA, EPCRA, CERCLA, SDWA, FIFRA, & UST obligations

Focus on Local, State, & Federal Requirements, Corporate Policies, Facility Procedures, and/or Best Management Practices

Single-Media to Multimedia Approach
Operational Compliance Assessments

PERMITTING

Clean Water Act

Clean Air Act

Resource Conservation & Recovery Act

Ecological (wetlands)

Operational Changes / Facility Expansions

COMPLIANCE MANAGEMENT

Air Quality Management

Water Quality Management
(Wastewater & Storm Water)

Waste Minimization, Pollution Prevention, Materials Management

Emergency Management, Contingency & Spill Response Plans

Management System Evaluations & Risk Management Tools

Environmental Management Systems / ISO 14001

COMPLIANCE ASSISTANCE

Monitoring Changes in Law, Regulations, & Rulemaking

Providing Regulatory Interpretations

“Regulatory Helpdesk” Support

Report Filing Assistance and Submittals

ENVIRONMENTAL / HEALTH & SAFETY RESPONSIBILITY TRAINING

Facilitating or Supervising Corrective Action Implementation

Community Relations

Environmental Liability Assessments

Comprehensive EH&S Due Diligence Audits

Phase I/II Environmental Site Assessments

Transaction Screens

Land Contamination & Brownfields Issues

Other Merger & Acquisition Support

Flexibility: Multi-year nationwide audit programs or sole-media consulting of a single process

Multi-regulatory program experience in 45 states and all ten U.S. EPA regions

Keen perception of how specific actions affect long-term, sustainable improvements in environmental performance

Emphasis on understanding processes and client objectives versus use of generic checklists

Experience working under Attorney-Client Work Privilege and managing sensitive client issues

Realization of both corporate and operating unit objectives and effectively communicating across lines by adapting to client culture

Technical Expertise

Cost Estimating for Financial Reserves
Regulatory Interpretation / Negotiations
Litigation Support
Innovative Software Solutions
Corporate Audit Program Management

Contact Us

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Finding Optimal Solutions to Your Environmental Issues

EnSafe's experienced environmental restoration professionals are equipped to restore your resources to renewed productive reuse – whether environmental remediation of a previously contaminated site, redevelopment of a Brownfields property to serve the local community, or decontamination and decommissioning of a site for reuse by an incoming industry. We ask the right questions to define the problem and design a solution that considers traditional constraints, such as budget, down-line liability, schedule, community relations, and management buy-in.

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FIELD INVESTIGATION

Sampling Plan Design
Groundwater, Soil, & Direct-Push
Technology Sampling
Soil-Gas Surveys
Field Sample Management
Investigation-Derived Waste
Management

ENVIRONMENTAL MODELING

Hydrogeologic Modeling
Geochemical Modeling
Fate & Transport Modeling
Spatial & Trend Analysis
Statistical Analysis

RISK ASSESSMENT

Ecological & Human Health
Assessment
Data Quality Objectives & Planning
Risk Evaluation of Removal
Alternatives
Independent Technical Review
Risk Management Support / Training

ANALYTICAL SERVICES

National & Local Subcontract
Laboratories
Data Validation
Data Management & Electronic
Storage
Data Integration

REMEDIATION

Monitored Natural Attenuation
Enhanced biological and geochemical
injections
Groundwater Containment / Hydraulic
Controls, Capping, Slurry Walls /
Barriers, Trench Collection, and
Permeable Barriers
Excavation & Disposal / Waste Profiling,
Transport, Disposal
In Situ Heating Low-Temperature
Thermal Desorption
Vapor, Liquid, and Multi-Phase
Extraction
Fast-Water Oil Spill Response

GEOLOGICAL SERVICES

Monitoring Well Design & Installation
Recovery Well Design & Installation
Soil Borings
Lithologic Interpretation
Surface and Borehole Geophysics

COMMUNITY RELATIONS

Community Outreach Programs
Planning, Training
Multimedia Public Meeting Support
Public Document Repository
Maintenance

Cost-Saving, Innovative Solutions
National Contracts with Laboratories
National Contracts with Drillers
In-House Geophysics

Technical Expertise

Registered Professional Engineers
Registered Professional Geologists
Nationally Certified Professional
Geologists
Certified Hazardous Materials Managers

Clients

Tennessee Department of Transportation
Helena Chemical Company
United Technologies Corporation
Terminix
U.S. Navy
Weyerhaeuser
ServiceMaster
ALCOA

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Protecting what matters

Protection and management of natural resources (our streams, wetlands, and endangered species) can have a significant impact on project schedules and budgets. Given today's complex regulations and the ever-increasing emphasis on judicious natural-resource management methods, partnering with a knowledgeable, responsive, and reliable consultant is essential. EnSafe's track record of technical and regulatory expertise as earned us the high regard of both our clients and environmental regulatory agencies.

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AQUATIC RESOURCE SITE ASSESSMENTS

- Site Acquisition Due Diligence
- Wetland Delineations
- Hydrologic/Stream Determinations
- Jurisdictional Determination Guidance
- Mitigation and Impact Cost Estimates
- 404 Permitting and 401 Certifications
- ARAP Permitting (Tennessee)
- State agency and USACE Coordination

WETLAND AND STREAM MITIGATION SERVICES

- Site Feasibility Studies
- Wetland and Stream Mitigation Plans
- Hydrologic Restoration Design
- Vegetative Restoration Design
- Bank Prospectus / Instrument Development
- Permittee-Responsible Mitigation
- Restoration Construction and Revegetation
- Wetland and Stream Mitigation Monitoring

RARE, THREATENED, AND ENDANGERED SPECIES

- Site Acquisition Due Diligence
- Section 7 Consultations
- Rare, Threatened, & Endangered Species Surveys and Assessments
- Bat Habitat Assessments
- Mist Netting, Acoustics, and Telemetry
- Vegetation / Tree Surveys and Inventory

WATER QUALITY ASSESSMENTS

- Stream Habitat Surveys
- Benthic Macroinvertebrate Sampling
- Analytical Sampling

RELATED ECOLOGICAL SERVICES

- National Environmental Policy Act (NEPA)
- Ecological Risk Assessment
- Erosion Prevention and Sediment Control

Full spectrum environmental service professionals, including biologists, ecologists, wetland scientists, risk assessors, GIS technicians, landscape designers, engineers, geologists, and chemists

Technical Expertise

- Professional Wetland Scientists (PWS)
- Professional Engineers (PE)
- Professional Geologists (PG)
- Qualified Hydrological Professionals (QHP)
- Certified Professionals in Erosion and Sediment Control (CPESC)
- Bat Biologists
- Level 1 and 2 Erosion Prevention Sediment Control

Clients

- U.S. Navy
- Defense Logistics Agency
- U.S. Department of Transportation—Surface Transportation Board
- Tennessee Valley Authority
- Tennessee Department of General Services
- Louis Dreyfus Company
- Weyerhaeuser Co.
- Shelby County Government

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Freedom to do what you do best

EnSafe Inc. understands that the lifeblood of any successful organization originates with its people. When workers are protected, they are freed to focus on your company's core business. Our top priority at EnSafe is providing cost-effective, creative solutions to your most challenging health and safety issues.

EnSafe's Health & Safety Team helps you protect your most valuable resource ... your people.

COMPLIANCE

Occupational Safety and Health Administration (OSHA) Compliance Auditing
Job Hazard Analysis
Personal Protective Equipment Assessments & Selection
Gap Analysis
Due Diligence / Expert Witness
Lockout / Tagout Procedures
Confined-Space Hazard Assessments

INDUSTRIAL HYGIENE

Baseline & Periodic Air Sampling
Indoor Air Quality Assessment
Microbiological (Mold) Assessments & Solutions
Program Evaluation & Development
Noise Evaluations & Controls
Ventilation System Assessment
Chemical Exposure & Control Assessments
Asbestos & Lead Assessments

TRAINING

Hazardous Waste Operations & Emergency Response (HAZWOPER)
Traditional & Virtual Training
OSHA Compliance
Emergency Response

HEALTH AND SAFETY

Program Development & Review
Voluntary Protection Program (VPP) Support & Mentoring
Safety Staff Augmentation
OSHA Compliance Liaison
Occupational Health & Safety Management Systems & Implementation Plans
Database Safety Management Systems
Ergonomics Assessments

PROCESS SAFETY MANAGEMENT

Process Safety Management (PSM) Development
Process Hazard Analysis (PHA)
PSM Compliance Audits
Mechanical Integrity Programs

SAFETY ENGINEERING

Machine-Guarding Assessment & Solutions
Construction Safety Support
Incident Investigations
Electrical Safety (NFPA 70E)

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Risk vs. Compliance Solutions
U.S. & Global Experience
Insourcing & Outsourcing Solutions
Turnkey Health & Safety Solutions
Comprehensive Health & Safety Services
Professionally Certified Staff

Technical Expertise

Certified Industrial Hygienists (CIH)
Certified Safety Professionals (CSP)
Certified Professional Engineers (PE)
Certified Hazardous Materials Manager (CHMM)

Clients

Owens Corning	Retia
Avery Dennison	Nissan
International Paper	WestRock
United Technologies	BAE Systems
Aleris International	Lockheed Martin
Hydro Extruded Solutions	
Tennessee Valley Authority	

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Customized Technology Solutions

EnSafe Inc.'s Technology Division is comprised of three service groups —Software Development, Geographic Information Systems (GIS), and Networking Infrastructure. With our Technology Division, additional services (engineering, environmental, and health & safety), and strategic alliances, EnSafe builds teams of highly qualified technical professionals with business domain expertise.

EnSafe specializes in technologies that optimize our clients' business processes — from systems planning and software to interactive mapping and infrastructure management.

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SOFTWARE DEVELOPMENT

Enterprise Application Design & Development
Internet / Intranet / Extranets
Sharepoint
Mobile Technology Development
Document Management Systems
Decision Support Systems

TECHNICAL EXPERTISE

Microsoft.Net Development
Esri (ArcGIS)
AutoDesk (AutoCAD)
EarthSoft (EQuIS)
RockWare (RockWorks, LogPlot)
Trimble (GPS, SketchUp)
TerraSync/Pathfinder Office

GEOGRAPHIC INFORMATION SYSTEMS

Enterprise GIS
Global Positioning Systems (GPS)
Computer-Aided Drafting (CAD)
Environmental Data Management
3D Modeling
Mobile Data Collection / Maps / Surveys
Custom Workflow/Data Visualization Solutions
Web-Based Interactive Mapping
GIS Training

STRATEGIC PARTNERSHIPS

Microsoft
Esri
CISCO
Intellireach

Proven business DOMAIN expertise
Award-winning technologies
Efficient development methodologies
Current technology investment maximization
Focus on improving company bottom-line

Clients

Tennessee Department of Transportation
Accredo Health, Inc.
Ergon Inc.
United Technologies Corp.
Weyerhaeuser Co.
Memphis / Shelby County Government
U.S. Navy

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