

Environmental Health and Safety

Fees and Services

Who is Environmental Health and Safety (EH&S)?

See EH&S website at: <https://ehs.utk.edu/>

Where does EH&S report?

EH&S reports to the Associate Vice Chancellor, Public Safety

What is EH&S's mission?

To create a healthful and safe atmosphere for study, research, service, and employment and to promote good health and safety practices. Our commitment to the health and safety of our employees, contractors, students, and community is uncompromising.

Who pays for EH&S's services?

EH&S internal clients will pay for non-core services. External clients pay for all EH&S services.

What core services does EH&S provide?

See pages 5 - 8.

Fee for Service (FFS) operations are established for the purpose of producing and selling goods and/or services to University departments and/or external customers

External Customers: UTIA, GSM, CVM, Greek Life, etc. (non-UTK affiliated)

RATE DEVELOPMENT

- All revenue and expenditures included in the rate need to be accounted for within the fee for service (FFS) program.
- Include salaries and benefits for personnel assigned to specific services of the FFS as well as administrative personnel supporting the FFS. (Rates are subject to change).
- Hourly services rates are a blended rate determined by the median income for Program Leaders and Supervisors plus benefits at 33% divided by the annual base hours of 2080.
- Hourly service rates in the Fire & Life Safety category for AED service and monthly/annual inspections are a blended rate of the Specialist and Technicians positions plus benefits at 33% divided by the annual base hours of 2080.
 - o Labor rate per extinguisher is half of the hourly service blended rate of the specialist and technicians rate.
- Other potential costs to include:
 - o Supplies consumed in the FFS operations
 - Supplies need to be allocated based on actual consumption per service or product. Examples include individual lab supplies, chemicals, materials, etc.
 - o Vendor costs (invoices)
 - o Service contracts, such as maintenance on a piece of equipment or software licensing services
 - o Shipping costs to send deliverables to customer
 - o Administrative costs

BILLING

- Billing for external customers and/or departments will happen monthly or annually, depending on the area and type of service.
- If two or more FFS programs provide goods or services to a single customer/department, and in the same month, EHS will combine billing when processing the internal transfer or invoice.
- Departments will need to provide the E or R account for billing purposes of non-core services.
- External Customers that are provided Radiation Safety and Biosafety services will continue to be billed at the percentage rates that have been agreed upon. This will be done quarterly unless the customer would like to be on a monthly billing schedule

ANNUAL RATE REVIEW

- Rates will be reviewed on an annual basis

Who are internal and external clients?

UT-Knoxville departments are internal.

The table below is a quick reference guide. It is not all-inclusive.

EH&S Clients	Billing Type	Services Billed
College of Architecture and Design	Internal	Non-Core Services
College of Arts and Sciences	Internal	Non-Core Services
College of Communication and Information	Internal	Non-Core Services
College of Education, Health and Human Sciences	Internal	Non-Core Services
College of Nursing	Internal	Non-Core Services
College of Law	Internal	Non-Core Services
College of Social Work	Internal	Non-Core Services
Haslam College of Business	Internal	Non-Core Services
Herbert College of Agriculture	Internal	Non-Core Services
Tickle College of Engineering	Internal	Non-Core Services
Centers and Institutes: <ul style="list-style-type: none"> • Baker Center • Bredesen Center • Ctr Environmental Biotechnology • IACMI • Inst. For Nuclear Security • Joint Institutes • Conferences and Non-Credit Programs 	Internal	Non-Core Services
Athletics	Internal	Non-Core Services
Dining	Internal	Non-Core Services
Housing	Internal	Non-Core Services
Parking	Internal	Non-Core Services
Service Centers	Internal	Non-Core Services
Thompson Boling Arena	Internal	Non-Core Services
VolShop	Internal	Non-Core Services
Greek Life	External	All EH&S Services
Ag Research (UTIA)	External	All EH&S Services
CVM	External	All EH&S Services
GSM	External	All EH&S Services

Core Services

Fire Safety & Life Safety/Emergency Management

Comprehensive fire safety services include installing, maintaining, and monitoring fire extinguishers on campus.

- Automatic External Defibrillator (AED) Inspection
- Building Inspection
- Building Safety Review
- Code Compliance
- Exercises and Drills
- Fire Extinguisher Program
 - Installation and Maintenance – *could be subject to fees*
 - Training
- Hot Work Permit – *could be subject to fees*
- Tent & Temporary Structure Inspection – *could be subject to fees*
- EOC Exercises and Operations
- First Responder Training/Communication (KFD & UTPD)
- Fire & Life Safety Education Preparedness

Hazardous Waste

Collection and disposal of unwanted materials generated at UTK.

- Chemical Redistribution for Campus
- Chemical, Radiological, and Biological Waste
- State of Tennessee (fee-based) by waste room location
 - Hazardous waste remedial action fees
 - Hazardous waste generator fees
- Tier II Annual Reporting – Environmental Program
- Rechargeable Batteries
- Sharps Disposal
- Universal Waste Lamps, Bulbs, Thermostats, and Pesticides
- Unknown/Unstable Wastes- *could be subject to fees*
- Laboratory “Clean-outs”-*could be subject to fees*
- Equipment Disposal – *could be subject to fees*

Industrial Worker Safety

Comprehensive safety services to ensure regulatory compliance and protection of the campus community.

- Accident Investigation
- Building and Shop Safety Surveys
- Confined Spaces
- Lock-out/Tag-out
- OSHA Reporting
- Safety Signs and Labeling
- Student Activity Safety (Events Authorization Committee)
- Workplace Safety

Core Services

Laboratory Safety Services

Health and safety services for laboratories (research, teaching, diagnostic), maker spaces, and academic support shops.

- Autoclave Certification- *vendor fees*
- Biohazard Shipping Consultation (Category A, Category B, Regulated Medical Waste, exempt biological materials, dry ice)
- Hazard Materials Storage
- Hazardous Waste Consultations, including collection
- Methods and Compatibility Assessments
- Job Hazard Analyses/Risk Assessment
- Particularly Hazardous Substance SOP Review
- Select Agent Biosafety & Biosecurity Plans Development
- Implementation & Monitoring
- Sharps Handling & Disposal
- Biological Materials Registration Management System
- Lab Inspection Archiving & Review System
- Lab Management Platform Administration
- Chemical Inventory Management
- Metrics & Reports
- Regulatory References
- Equipment Disposal - *could be subject to fees*
- Exposure Monitoring
- Fume Hood Inspection
- Laboratory and Shop Safety Surveys
- Accident/Incident Investigation & Reporting
- Autoclave verification coordination – testing by equipment users (includes LSS distribution of indicators)
- Door Placarding
- Equipment Decontamination & Disposal Guidance
- Equipment Inspection & Operation Review
- Laboratory Commissioning (upon lab startup)
- Laboratory Decommissioning (lab staff available)
- Personal Protective Equipment Consultation & Verification
- Safety Labeling & Signage
- Spill Response (coordinated effort) – *subject to supply costs*
- Unwanted Materials Management – *could be subject to fees*
- Committee Representation
- CDC Permit Consultation, Guidance, & Compliance Oversight
- Select Agent Form/Permit Consultation & Guidance
- USDA Permit Consultation, Guidance, & Compliance Oversight
- Biosafety Levels 1-3 Compliance, including Containment & HVAC System Design
- Chemical Hygiene Compliance, including Control Areas, Maximum Allowable Quantities (MAQs), Containment & HVAC System Design
- Safety Equipment Compliance, including Eye Washes, Safety Showers, Chemical Fume Hoods (or Local Exhaust Ventilation), Biosafety Cabinets, Autoclaves, Toxic Gas Cabinets, and Hazard Materials Storage Cabinets
- Regulatory Permit Awareness Training (CDC/USDA)
- Special Hazard Training (e.g., Hydrofluoric Acid)

Core Services

Radiation Safety

Comprehensive radiation safety services.

- Management of Radioactive Material Licenses, including routine required regulatory compliance tasks:
 - TDEC annual license fees for broad-scope radioactive materials and general license device licenses.
 - Radiation Safety/Radiation Safety Committee Management and permit approvals
 - Compliance and Safety Assessments/SOP reviews
 - Laboratory Audits and Contamination Monitoring
 - Radioactive Materials Inventory Control. Review/approve incoming receipts of radioactive materials. Perform package contamination assessments and deliver the package to users.
 - Sealed Source Leak Test and Inventory Management
 - Radioactive source shielding assessments
 - Initial and Refresher Radiological Safety Training.
 - Routine Assessments of radiation contamination in laboratories or on equipment
 - Fume hood or exhaust ventilation flow rate verification.
 - Management of annual or periodic radiation detector calibrations. Arrange for instrument calibration in-house or through vendor services. Provide loaner instruments -when available. Arrange for shipment or delivery of instruments to vendor. *Fees for vendor calibration and shipping/delivery charges will be charged out.*
 - Radioactive Waste Management – collect waste, manage storage, and arrange for offsite disposal of routine dry solid waste and liquid scintillation vial waste. *Large waste volumes, oversized items, sealed sources, animals, or other non-routine radioactive items disposal fees will be charged out.*
 - Incident investigation and regulatory reporting.
- Management of X-ray or Ionizing Radiation Producing Devices
 - Maintain and manage Tennessee X-ray device registration inventory and paperwork. Manage Certified Registrations.
 - Provide general x-ray hazard initial and refresher training.
 - Provide TDEC-required x-ray device inspection services at the frequency required by machine type.
 - Assess hazards, shielding needs, and occupational exposure monitoring needs.
- Occupational radiation dose monitoring oversight.
 - Manage occupational radiation dose monitoring programs. Provide assessments for the need for radiation dosimetry.
 - Routine Internal Radiation Dose Assessments for radioiodine.
 - *Cost for radiation dosimetry equipment will be charged through established recharge center rates.*
- Non-Ionizing Radiation Safety program
 - High-power laser system (Class IIIB or IV) safety program implementation. Provide services, including maintaining high-power laser system inventory, hazard assessment, SOP review, and general consultation on laser set-ups. Manage online laser safety training. Hazard assessments and consultations that require greater than 6 hours of staff time will be charged an hourly rate.
 - UV, Microwave, and RF Oversight. Provide services, including hazard assessments, SOP review, and general consultations on the safe set-up or use of equipment. Provide general safety training. Hazard assessments and consultations that require greater than 6 hours of staff time will be charged an hourly rate.

Core Services

Occupational Health & Safety Systems/Training Development Data Communication

Comprehensive offering of health and safety-related training courses and workshops.

- Comprehensive Course requirements and recommendations guidance
- General Safety Courses
- Course Development, Deployment, and Evaluation.
 - Industrial Worker Safety Courses
 - Laboratory Safety Courses
 - Biosafety Courses
 - Radiation Safety Courses
 - Regulatory Compliance Courses
 - Best practices courses
- Online Training Systems Administration
- Records creation for EHS-delivered courses
- Institutional Biosafety Committee (IBC) committee administration
- Laboratory Safety Committee (as assigned, participation in relevant subcommittees)
- Other departmental representation as assigned
- Department shared information management databases and solutions that support EHS information outputs to stakeholders, including regulators, administration, committees, and relevant users.
- Custom Data Systems Integration – *could be subject to fees*
- Chemical inventory system administration
- Biosafety (iMedris) system administration
- Safety Management System (SMS) system administration
- Communications (email, social, etc.) delivered in support of department/institutional priorities, remediations, training, and specific programs.
- Training and Events Calendar System Administration
- Critical Publications Management
- Integration of communications with institutional guidelines and communicators community
- Occupational Programs Management
 - Programs Enrollment and Data Management
 - Employee Exposure Monitoring
 - Trend Analysis

Fee Schedule for Non-Core Services FY23

Actions of Regulatory Agencies	
<ul style="list-style-type: none"> • Corrective Actions Follow-up to Agency Findings (negligence) • Fines 	<ul style="list-style-type: none"> • \$100/hour plus any fine liability • Agency assigned & passed on to the customer
Biosafety Services (Contracted Service)	
<ul style="list-style-type: none"> • Biosafety Safety Cabinet Certification • Biosafety Safety Cabinet HEPA Filters • Biosafety Safety Cabinet Repair • Laminar Flow Clean Bench Certification 	<ul style="list-style-type: none"> • by vendor • by vendor • by vendor • by vendor

Controlled Substances	
<ul style="list-style-type: none"> • Technical Assistance/Assessment • Guidance Document Development/Maintenance 	<ul style="list-style-type: none"> • \$60/hour • \$60/hour
Environmental Surveys & Audits	
<ul style="list-style-type: none"> • Surveys, Inspections, and Audits to determine compliance • Investigate complaints, failures, and releases • Collect samples 	<ul style="list-style-type: none"> • \$60/hour plus materials and vendor costs • \$60/ hour plus materials and vendor costs • sample type dependent on the vendor
Ergonomic Evaluations	
<ul style="list-style-type: none"> • Basic Workstation Evaluation • Other Evaluations 	<ul style="list-style-type: none"> • \$300.00 • \$100/hour
Fire & Life Safety	*model dependent (ABC; Class K; D; Halotron; CO ₂ ; etc.)
<ul style="list-style-type: none"> • AED Cabinet Package (Wall Mounted) • AED Replacement Pads and Batteries • AED Accessory Pack (initial or replacement) • AED service or replacement • Fire Extinguisher Installation/Replacement (ABC; K; D; Halotron; CO₂; etc.) • Fire Extinguisher Refill • ABC 5# 6-year maintenance service • ABC 10# 6-year maintenance service • Hydrostatic Testing • Labor Rate Per Extinguisher • Monthly/Annual Inspections • Open Burn Inspection/Permit (Special Events) • Impairment Permit/Monitoring (Construction/Renovation Projects) • Hot Work Permits (Construction/Renovation Projects) 	<ul style="list-style-type: none"> • Vendor cost • Vendor cost • Vendor cost • \$30/hour plus materials • \$65-\$1000* plus labor • \$18.65 - \$450* plus labor • \$18.65 plus labor • \$25.65 plus labor • \$30.65 - \$150.00* • \$15/per extinguisher • \$30/hour • \$60/hour plus materials • \$60/hour • \$60/hour

Hazardous Waste Management	
<ul style="list-style-type: none"> • Unknown chemical identification/analysis (by vendor) \$20.00 per unknown sample plus disposal fee of \$95.00 (3%) minimum per container • High-hazard chemical stabilization/disposal (by vendor). The amount is case by case, depending on what the hazard is. • Non-routine chemical waste removal (lab cleanouts, abandoned chemicals/equipment, radiological materials, incineration, etc.) (by vendor) 	<ul style="list-style-type: none"> • \$60/ hour plus all vendor disposal costs • \$150/hour plus all vendor disposal costs. • \$120/hour plus all vendor disposal costs

<ul style="list-style-type: none"> • Vendor fees by contract (can increase by 3% a year in contract pricing) • Hazardous Materials Shipping • Cylinder Disposal Costs (case by case). <ul style="list-style-type: none"> ○ Cylinders without a manufacturer's label affixed to the cylinder are treated as unknown, causing substantial charges, case by case. 	<ul style="list-style-type: none"> • Vendor disposal costs • \$60/hour plus materials and vendor fees • \$60/hour plus materials and vendor fees
Industrial Worker Safety	
Indoor Air Quality	
<ul style="list-style-type: none"> • Odor Calls • Exposure Monitoring (equipment/hour/materials/report) • Ventilation Studies (including written report) • Sample Analysis (per sample) 	<ul style="list-style-type: none"> • \$60/hour • \$60/hour plus materials • \$60/hour plus materials • sample type dependent on the vendor
Mold Services	
<ul style="list-style-type: none"> • Monitoring • Surveys (including written reports) • Sampling • Sample Analysis (per sample) 	<ul style="list-style-type: none"> • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus material • sample type dependent on the vendor
Lead Services	
<ul style="list-style-type: none"> • Surveys (including written reports) • Sample Analysis • Disposal 	<ul style="list-style-type: none"> • \$60/hour plus materials • Sample type dependent on the vendor • \$60/hour plus materials
Physical Hazards	
<ul style="list-style-type: none"> • Noise Surveys (including written reports) • Lighting Surveys (including written reports) 	<ul style="list-style-type: none"> • \$60/hour • \$60/hour
Respirator Fit Testing	
<ul style="list-style-type: none"> • N-95 Mask Initial/Recertification • 1/2, Full Initial/Recertification 	<ul style="list-style-type: none"> • \$30 per person plus materials • \$30 per person plus materials
Laboratory Safety Services	
<ul style="list-style-type: none"> • Autoclave Certification • Unwanted Materials Management • Toxic Gas Alarm Testing/Certification • LSS provided to other UT System campuses (except biosafety services to UTIA, AgResearch, CVM, or GSM as per pre-established agreement) • LSS provided to third-party entities using UTK-area facilities • Biohazard Packaging, completion of Hazard Declaration of Dangerous Goods, & Shipping • Equipment Decontamination & Disposal 	<ul style="list-style-type: none"> • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus materials • \$60/hour plus materials & disposal cost

<ul style="list-style-type: none"> • Laboratory Decommissioning (vacated labs; lab staff unavailable) • Spill Response • BSL3 Facility commissioning/decommissioning services exceeding 4 hours • Facility commissioning/decommissioning services beyond the scope of the BMBL (e.g., special disinfection procedures) • Preparation of BSL-3 documentation 	<ul style="list-style-type: none"> • \$60/hour plus materials & disposal cost • \$60/hour • \$60/hour • \$60/hour
<p>Radiation Safety Services</p>	
<ul style="list-style-type: none"> • TN-X-Ray Generating Device Registration or Installation fees • Annual Specific Radioactive Materials License Fees • TN Certified Registration Fees • Radioactive Waste Disposal Fees - <i>Large waste volumes, oversized items, sealed sources, animals, or other non-routine radioactive items for internal customers. All radioactive waste disposal costs for external customers.</i> • Radiation Survey Instrument Calibration for an external customer. • Radiation Detector calibration service provided by an external vendor. • Radiation Detection Equipment Survey Instrument Repairs • Unknown Radioactive Waste Identification/Analysis • Supplies for waste management, shielding, PPE • Dosimetry Equipment. • Routine or Accident/Incident based internal dose assessments for nuclides or services not routinely provided. • Health Physics Support Services <ul style="list-style-type: none"> ○ Includes: decontamination efforts, identifying and managing radioactive sources, experiment-specific health physics support, accelerator tests, and safety assessments. • Radioactive Sample/Materials Local Transport • Shipment of Radioactive Materials <ul style="list-style-type: none"> ○ Radioactive Material Packaging, Shielding, Completion of Hazard Declaration of Dangerous Goods, & Shipping 	<ul style="list-style-type: none"> • \$85 - \$1170* device dependent • \$350-\$7800 * License type specific • \$2600 + initial review fee • Vendor disposal fees. External customers will be charged an additional \$60/hour for waste management and transport. • \$105/instrument • Vendor and shipping costs. • Minimum \$100 fee for the in-house repair cost. Vendor, shipping & handling fee for outsourced repairs • \$60/hour, disposal fees, and laboratory analysis fees if warranted. • Costs charged to the user. • Charged by use to the user at approved recharge center rates. • \$60/hour plus materials and commercial lab service fees and disposal costs. • \$60/hour plus any materials • \$25 flat rate per transport • \$50/package plus the cost of shipping, shielding, and packaging materials.
<p>Laser Safety Support</p>	
<ul style="list-style-type: none"> • Hazard Assessments, consultations on device set-up and safety, SOP Reviews 	<ul style="list-style-type: none"> • \$60/hour plus materials for services exceeding 4 hours

Non-Ionizing Safety	<ul style="list-style-type: none"> • \$60/hour plus materials for services exceeding 4 hours
<ul style="list-style-type: none"> • Hazard Assessments, consultations on device set-up and safety, SOP Reviews 	<ul style="list-style-type: none"> • \$60/hour plus materials
Occupational Health & Safety Systems/Training	
Development Data Communication	
Training	
Specialized/Department-Specific Safety	
<ul style="list-style-type: none"> • Department Specific Course ≤2hrs • Department Specific Course 4hrs • Department Specific Course 8hrs • Scaffold Training (Contracted Services) • Contracted Service 	<ul style="list-style-type: none"> • \$1200 • \$2200 • \$4500 • Vendor cost • Vendor cost
CPR/AED/First Aid	
<ul style="list-style-type: none"> • Basic First Aid • CPR/AED (adult only) • CPR/AED (adult, child, infant) • CPR/AED & BFA 	<ul style="list-style-type: none"> • \$30 per person • \$35 per person • \$45 per person • \$65 per person
Research Protocols Management Support	
<ul style="list-style-type: none"> • iMedris Management for ORIED 	<ul style="list-style-type: none"> • \$26.80/ hour
Custom Data System Integrations	<ul style="list-style-type: none"> • \$60/hour
Fees are subject to change.	