b Code: 410055 FLSA Status: Exempt		
	Mgt. Approval: M.Kelley	Date: 9.2018
partment: Clinical Engineering/4102	HR Approval: K.Sawyer	Date: 9.2018
JOB	SUMMARY	
der the general direction from the Director of Clinical En- guipment Management Plan, the Clinical Engineer Surgi embers of the Department of Surgical Services in the ca- ectrical, pneumatic, and mechanical equipment used in the rgical procedures. Management of the equipment must direct impact on patient and employee safety, and on fac- sess and provide for the equipment needs to achieve the tting. These goals include maintaining patient safety; procedures; teaching residents; and conducting clinical re-	ical Services will independently are of their patients. The equip the Operating Rooms (ORs), f ensure its immediate availabil cilitating the smooth flow of the ne goals of the Department of S roviding adequate availability of	y manage equipment used by the oment includes a wide variety of or and pertaining to, a diverse array c ity, accuracy, and reliability. This has e OR schedule. The incumbent must Surgical Services in the clinical
e position provides a unique capability within the depart owledge of equipment used in the ORs. The incumben owledge and experience with OR equipment and sound d problems coinciding with advances in technology and	t independently determines job d engineering principles. The j	o projects and methods, based on
crucial area of problem solving regards intraoperative ex- ecisions on how to proceed are made based on experier reful examination of the symptoms. There is little time t ect the delivery of safe and reliable patient care, this wo	nce and knowledge of the und to refer to outside sources. Sir	erlying principles of operation, and nee improper judgments may greatly
uipment maintenance must be regularly re-evaluated for ust be weighed for their cost versus the need to provide ht and boom replacements, surgical robots, and video un cisions must be made between several competing vence mpetitive bidding while still maintaining a minimum stan iable, accurate, and able to be updated over its life cycle rchasing requirements and capital budget processes.	up to date, reliable equipment upgrades must be outlined sev dors. Purchasing involves writ ndard; evaluating bid response	t. Purchases in major areas, such as eral years in advance. Purchase ing specifications to encourage s; determining which system will be
miliarity with codes and recommendations such as AAN gulations require significant interpretation because they realistic, or voluntary. Most are technical and require a	are often expensive to implem	nent, out of date, conflicting,
e incumbent has contact with equipment manufacturers anagers and applications specialists. These contacts in uipment design, maintenance and repair.		
e incumbent works with Faculty, Residents, and various y on the Clinical Engineer for expert advice on equipme oblems that may occur during surgical procedures. The ysical principals and functionality of surgical equipment	ent operation, accuracy, and as Clinical Engineer may be calle	ssistance with various unanticipated
e incumbent works with UW Health's Planning Design a nstruction or remodeling of OR locations to provide for a Inpatient, Outpatient, and AFCH Surgical Services Dep ocedures are provided.	adequate facilities used for sur	rgical procedures. Support is provided
MAJOR RE	SPONSIBILITIES	

• Determine practicality and cost-effectiveness of utilizing vendors or UW Health Clinical Engineering in-house staff.

- Plan for training, test equipment, scope, and interval of regular preventive maintenance.
- Conduct corrective action on designated medical equipment when necessary, or when outside maintenance is impractical, unavailable, or not cost-effective.
- Configuration, testing and verification of medical equipment data transferred into the electronic medical record as needed.

B. Coordinate the Repair of Malfunctioning Equipment and Systems

- Plan for test equipment and training.
- Determine practicality and cost-effectiveness of utilizing vendors or UW Health Clinical Engineering in-house staff.
- Coordinate, and when necessary conduct, the repair of critical electronic and mechanical equipment when down-time must be minimized, or when outside maintenance is impractical, unavailable, or not cost-effective.
- Real time coordination, trouble shooting, and resolution of Surgical Services equipment and system matters, including but not limited to; Operator concerns, equipment failures, and issues related to the OR environment.

C. Acquire and Implement New Equipment

- Develop and implement capital equipment budgeting plan.
- Design and coordinate evaluation procedures for new equipment.
- Determine purchase specifications, evaluate, and make recommendations on competitive bids in compliance with UW Health purchasing requirements and capital budget processes.
- Coordinate the set up and check in of new equipment.
- Coordinate equipment updates and device corrections for efficacy and safety of the operator and patient.
- Design and provide in-service education materials for new equipment and coordinate equipment educational programs as needed.

D. Ensure Patient and Employee Safety

- Pursuing and implementing new equipment approaches and uses.
- Monitor the procedures and implementation of the electrical safety program for portable electrical equipment and the
 electrical power supply used in the operating room.
- Delineate and coordinate the program for monitoring and control of operating room air pollution to reduce hazards to operating room personnel.

E. Provide Training and Education

- Design orientation and training for new equipment and hospital-wide safety programs specific to Surgical Services equipment and locations.
- Provide orientation and training for new Surgical Services personnel as needed.
- Assist with creating and conducting new device implementation, training and workflow enhancements for various groups, including; Residents, Technicians, and other appropriate clinical and non-clinical staff as needed.

F. Miscellaneous

- Resolve intraoperative malfunctions of surgical equipment and systems.
- Participate in planning of new operating and procedure areas such as intraoperative radiotherapy, MRI, and neuroradiology intervention, as well as any facility upgrades, modifications, or renovations.
- Participates on or advises departmental committees on surgical equipment status and needs, equipment upgrades and/or emerging technologies, surgical equipment failures, recalls and corrective actions, etc.
- Maintain state of competency by establishing self-development plan including journal review and educational conference attendance. Drive continuous improvement strategies in a wide array of Department specific initiatives, including but not limited to; equipment safety, cost reduction, patient safety protocols, and various other UW Health administrative and operational driven priorities.
- Perform other duties as assigned.

ALL DUTIES AND REQUIREMENTS MUST BE PERFORMED CONSISTENT WITH THE UW HEALTH PERFORMANCE STANDARDS.

JOB REQUIREMENTS						
Education	Minimum	Associate Degree in Electronics or applicable military education. 2 years of				
		relevant surgical equipment experience may be considered in lieu of degree or				
		military education in addition to experience below. (Applicable military education:				

			ill be read	rod to verify	rolovonovi			
	Preferred	DD214 Form w						
		Bachelor's Deg		-		- (
Work Experience	Minimum	I hree years' ex environment.	Three years' experience with surgical equipment in an operating room environment.					
	Preferred				cal equipment and sys	stems.		
Academic Medical Center experience.								
Liconoco 9	N dia iraa u raa	Education	Education and training - Leadership experience.					
Licenses & Certifications	Minimum Preferred	Certification as	a Riomedi	cal Electron	ic Technician (CBET)			
				a Biomedical Electronic Technician (CBET)				
 Basic knowledg and OR location Ability to diagno surgical service Ability to organi equipment. Basic knowledg configuration. Strong custome Ability to develo services. 			wledge of li cations. iagnose an ervices pers rganize and t. wledge of lr on. stomer serv evelop a bu	agnose and repair failures of equipment and systems used by vices personnel. ganize and schedule preventative maintenance for surgical ledge of Information Technology terminology, set-up and				
Instructions: Indicat boxes below. Next,	ic competencies for e the age groups of		ct patient ca patients. either by dir	ect or indire	s who regularly assessed to the sect patient care by che	-		
Infants (Birth – 11 months)				Adolescent (13 – 19 years)				
Toddlers (1 – 3 years)				Young Adult (20 – 40 years)				
Preschool (4 – 5 years)				Middle Adult (41 – 65 years)				
School Age (6 –	12 years)			Older Adult (Over 65 years)				
Review the employ	ee's job description	and identify each	FUNCTIO	unction that	t is performed differen	tly based on the age		
		PHYSICAL	REQUIR	FMENTS				
Indicate the appropr	iate physical requi				ote: reasonable accom	modations may be		
made available for inc								
Physical Demand Level			Occasion Up to 33%		Frequent 34%-66% of the	Constant 67%-100% of the		
and occasional articles as dock Although a sed involves sitting, standing is ofte duties. Jobs ar	lity to lift up to 10 po y lifting and/or carry ets, ledgers and sm entary job is defined a certain amount of n necessary in carry e sedentary if walkir ly occasionally and	ing such all tools. as one, which walking and ring out job ng and standing	time Up to 10	ŧ	time Negligible	time Negligible		
occasionally lift dockets, ledger	lift up to 10 pounds ing and/or carrying s s and small tools. A s defined as one, wh	such articles as Ithough a	Up to 20	ŧ	Up to 10# or requires significant walking or standing, or	Negligible or constant push/pull of items of negligible weight		

	sitting, a certain amount of walking and standing is often necessary in carrying out job duties. Jobs are sedentary if walking and standing are required only occasionally and other sedentary criteria are met.		requires pushing/pulling of arm/leg controls	
Х	Medium: Ability to lift up to 50 pounds maximum with frequent lifting/and or carrying objects weighing up to 25 pounds.	20-50#	10-25#	Negligible-10#
	Heavy: Ability to lift up to 100 pounds maximum with frequent lifting and/or carrying objects weighing up to 50 pounds.	50-100#	25-50#	10-20#
	Very Heavy: Ability to lift over 100 pounds with frequent lifting and/or carrying objects weighing over 50 pounds.	Over 100#	Over 50#	Over 20#
	any other physical requirements or bona fide upational qualifications:			

Note: The purpose of this document is to describe the general nature and level of work performed by personnel so classified; it is not intended to serve as an inclusive list of all responsibilities associated with this position.