UW HEALTH JOB DESCRIPTION

Bioinformatics Scientist								
Job Code: 530027		-		proval: K. Schliesman	Date: May 2024			
Department: Clinical Lab	– Molecular Diag			proval: S. Whitlock	Date: May 2024			
		JOB SU	MMA	RY				
Sequence (NGS) testing premises and cloud com programming and a disc application of software of delivery and communica	in clinical diagno puting platforms iplined approach evelopment best tion of results.	ostics and will suppo . The successful can to maintaining the h practices. This indi Other responsibilities	ort clinio ididate ighest ividual includ	cal operations and lab in is expected to have a st standards of data valida will be responsible for pr e research and developm	genomics and Next Generation formatics systems, using on- rong background in tion and governance with the oject management, data nent within the clinical lab by o present findings as needed.			
		MAJOR RESPO	DNSIE	BILITIES				
 Develops, evaluates and annotation for o Participates in optim create reports comp Ensures appropriate quality assurance ne confidentiality. Participates in all tes Participates in the e Acts as a liaison with bioinformatic analys Collaborates with ot plan, design, develop 	a, adapts, validate ptimal patient ca ization of NGS d atible with the La e archiving of data eeds. with CLIA/CAP sting phases asso valuation of future h UW Health clin es and security. her software dev p, test, implemer ry director, patho	es, and implement so re. ata review and assis b Information System a, while creating met requirements and ac ociated with applicat e hardware and softwical services comme elopers, IS teams, an t, and maintain appli logists, laboratory pr	oftware sts in b m. thods fi dheres ions du ware a rcial ve pplicati lication	oth bioinformatics workfl or retrieval of archived da to HIPAA regulations for uring implementation and cquisitions. endors and UW Health IS ons staff and users of in development efforts and	e gaps in NGS variant calling ow and variant interpretation to ata for future evaluation and transactions, security, and d upgrade deployments. S as related to molecular formation systems to evaluate,			
,		JOB REQU	JIREN	MENTS				
Education	Minimum			eld related to Biological Scie	ences			
	Preferred		PhD in	the field of Biological Scier				
Work Experience Minimum Preferred		Five (5) years of training experience or professional work experience in a research laboratory or a service involved in genomics or bioinformatics						
Licenses & Certifications	Minimum Preferred							
Required Skills, Knowledge	 Bioinformatics Certification Effective communication, interpersonal, and negotiating skills Demonstrated ability to work independently and as part of a team Demonstrated proficiency with command-line operating systems, programming languages and bioinformatic software packages Understanding of or experience with laboratory genomics workflows and CAP regulatory requirements Proficiency in one or more programming languages such as Python, Java R or bash scripting Familiarity with at least one database language such as MySQL, Oracle Experience with cloud computing 							
Identify age-specific or		ECIFIC COMPE	TENC	Y (Clinical jobs only	y) ess, manage and treat patients.			
Instructions: Indicate appropriate boxes below	the age groups							
Infants (Birth – 11 mc	onths)			Adolescent (13 – 19 years				
Toddlers (1 – 3 years	Toddlers (1 – 3 years)			Young Adult (20 – 40 yea	urs)			

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	Preschool (4 – 5 years)	Middle Ad	ult (41 – 65 years)			
	School Age (6 – 12 years)		Older Adult (Over 65 years)			
Re	eview the employee's job description and identify each essen	UNCTIONS tial function that is per patient.	formed differently based on	the age group of the		
	PHYSICAL	REQUIREMENT	'S			
	cate the appropriate physical requirements of this be made available for individuals with disabilities to perform			e accommodations		
Physical Demand Level		Occasional Up to 33% of the tim	Frequent	Constant 67%-100% of the time		
	Sedentary: Ability to lift up to 10 pounds maximum and occasionally lifting and/or carrying such articles as dockets, ledgers and small tools. Although a sedentary job is defined as one, which involves 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.	Up to 10#	Negligible	Negligible		
X	Light: Ability to lift up to 20 pounds maximum with frequent lifting and/or carrying of objects weighing up to 10 pounds. Even though the weight lifted may only be a negligible amount, a job is in this category when it requires walking or standing to a significant degree.	Up to 20#	Up to 10# or requires significant walking or standing, or requires pushing/pulling of arm/leg controls	Negligible or constant push/pull of items of negligible weight		
	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#		
	er - list any other physical requirements or bona fide upational qualifications not indicated above:					

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.