

POSITION DESCRIPTION

North Dakota University System

PART A - Identification, Duties/Responsibilities, and Task Inventory

(#'s 1-12a must match HRMS or left blank and in	nclude a Position Requ	est/Change form)		
1. Name of Employee:		1a.EmplID #:		
2. Position #:00016005	2a. Dept. ID #: 8015	2b. Curre	nt or Recommended	Salary: \$60,000
3. Band #/Title: 3000: Professional	3a. Job Family	#/Title: 3325: Genera	l Science Professional	
4. Functional Title: Genomics Scientist				
5. Please check all that apply				
5a.Type of position:	⊠Full time □ Part	t-time IF Part-Ti	me, FTE Percentage:	%
5b. Length of Position:	□ 9 month □ 1	0 month □ 11 n	nonth ⊠ 12 month	□Other Month
6. Institution: University of North Dakot	a		7. Division: Scho Sciences	ool of Medicine & Health
8. Department: The Biomedical Sciences			9. Unit:	
10. Work Mailing Address: 1301 N Columbia 58202-9037	Road, Stop 9037, Gr	and Forks, ND	11. Work Phone	: 777-6612
12. Name & Title of Supervisor: Bony DeKun	nar, Genomics Core M	/lanager	12a. Supervisor	Posn # :00015420
13. What is the function/mission of your dep	artment?			
The mission of the UND Department of Biome	edical Sciences is to:			
Educate and train future generations	of scientists, physicia	ns, and other he	alth care providers.	
 Advance basic and translational bion Use professional skills and knowledge 	nedical science and e	ducation through	scholarly activity.	H H 9 (NI-4)
Dakota, the people of the state and r	nation, and the profess	sion.	ine and Health Science	ces, the University of North
14. What is the purpose of your position? (V	Why does the position	exist, how does	the position function v	vithin the work unit?)
The purpose of this position is to manage ongoing Genomics and bioinformatics research and provide genomics services to internal				
and external clients in the genomics Core. T	his position will provid	le comprehensiv	e assistance with the	design and implementation of
experiments, technical assistance with advartor SMHS faculty, staff, and students, as well	as outside collaborati	ing entities. The	oosition will collabora	tive with investigators and
others to bring issues to appropriate resolution challenges and future directions as the Geno	on; will present at sem mics Core continues t	inars/teaching fo to grow.	rums; and will work o	n an on-going basis to identify
The Genomics Core at the University of North investigators at UND, institutions across the university at UND, institutions	h Dakota is a shared r	esource providin	g state of the art gend	omics capabilities to
operation intended to help researchers utilize	next generation sequ	encing technolog	gies in basic and trans	slational research. The Core's
primary function is to help researchers gener produced in next generation sequencing expe	eriments. The Core pr	ovides services,	training and genomic:	s resources to the scientific
research community here at UND, NDSU, US present sequencing data based on needs of	SDA and nearby colleg	ges. Core staff is	available to design pr	rojects as well as analyze and
sample preparation and data analysis using s needs of specific projects.	standard as well as cu	stom library prep	aration and bioinform	atics analyses based on the
Annual Transfer				
15. Is this position essential during emergen				
(Essential personnel may be required to work that particular situation.)	during emergencies	and closures affe	cting UND depending	g on staffing levels required for

PART A - 16. Duties/Responsibilities

⇒ Indicate Essential/Secondary. The following questions should be taken into consideration in the determination:

- Is the duty/responsibility the reason the job exists?

- Is this a highly specialized task or one that requires special education, training, licensure?

If the answer is yes, the duty is "essential".

- What is the percentage of time spent on the function?

If the answer indicates a great % of time, the duty is probably "essential".

- What are the consequences to others or the institution of a failure to perform the function?

If the answer indicates a high level of accountability, the duty is "essential".

NOTE: See Position Description Instructions and examples.

Duty/Responsibility No. 1	Percent of Time 70	Statement of duty/responsibility (used for evaluation/review of performance):
For ADA compliance, see ins Responsibility is:	struction.	Manage Genomics Core Laboratory Functions
⊠Essential □ Second (Please check one)	• 1	

Tasks involved in fulfilling the above duties/responsibilities (include description for physical and mental/cognitive demands)

- Manage, design, execute, and analyze data of genomics and transcriptomics projects on behalf of the Core in consultation with investigators.
- Keep track of multiple sets of samples or data from multiple customers, organizing work-flow for the Core to optimize turn-around time and quality
- Troubleshoot assays or data analyses as required when results prove unsatisfactory
- · Conduct quality control procedures for Core operations as directed by the Core Director
- Execute Next-generation sequencing procedures including quality control of samples provided by investigators pre- and post-sequencing.
- Operate and maintain computers used with data analysis and associated with Core equipment such as MiSeq, GridlonX5, 10X chromium system and VolTrax system.
- Analyze and interpret data, including Next generation sequencing and genomics techniques, both independently and as part of the team of researchers.
- Generate reports on the Core's programmatic and budgetary performance in compliance with requirements set by external funding agencies such as NIH and NSF.
- Interpret customer requests and determine best practices in order to provide comprehensive experimentation techniques and computational and statistical data analysis.
- Interact with both internal and external customers (including UND faculty and trainees as well as investigators from
 other institutions including the DaCCoTA CTR consortium) to explain the capabilities of the Core and help investigators
 determine how the Core capabilities can assist in their investigations
- Provide realistic estimates of turn-around time to internal and external customers
- Engage in service recovery activities, consulting with the Core Director as needed.

Duty/Responsibility No. 2	Percent of Time 10%	Statement of duty/responsibility (used for evaluation/review of performance):
For ADA compliance, see in Responsibility is: ⊠Essential □ Secon (Please check one	dary	Participate in Training and Education With/For Other Core Laboratories

Tasks involved in fulfilling the above duties/responsibilities (include description for physical and mental/cognitive demands)

- Participate in training and education sessions regarding teaching experimentation techniques, data analysis, and equipment maintenance/usage with/for other SMHS core laboratories to provide comprehensive services to local and outside entities.
- Become cross trained to perform assays and other technical duties in other SMHS cores to assist with peak workloads and absences.
- Facilitate and present training seminars for all services of the core facility.
- Attend training seminars for all services of other SMHS core facilities.
- Provide work direction for other SMHS core facility staff/faculty/students and accept work direction from other SMHS core facility personnel as may be required.

Duty/Responsibility No. 3	Percent of Time 10	Statement of duty/responsibility (used for evaluation/review of performance):
For ADA compliance, see in Responsibility is: ⊠Essential □ Secon (Please check one	dary	Manage Project Information
		ties/responsibilities (include description for physical and mental/cognitive demands) ation including project information, raw data, analyzed data, and steps taken for data
 Track core usage of 	data, genera	ate and disseminate reports, as appropriate.
 Track turn-around 	time, genera	ate and disseminate reports, as appropriate
Summarize and co	mpile resea	rch data to assist with preparation of manuscripts and grants for submission.

Duty/Responsibility No. 4 Percent of Time 10		Statement of duty/responsibility (used for evaluation/review of performance):
For ADA compliance, see ins Responsibility is: ⊠Essential □ Second (Please check one)	lary	Manage and Supervise Core Personnel

Tasks involved in fulfilling the above duties/responsibilities (include description for physical and mental/cognitive demands)

- Help hire, train, evaluate, supervise, and perform disciplinary tasks as necessary for Core personnel.
- Evaluate current training and operating procedures and processes for employees, draft new policies and procedures, as necessary.
- Provide appropriate feedback and performance improvement measures and guidance.
- Maintain organization chart for the Core group supervised, recommend changes as necessary.
- Attend supervisory training sessions as deemed necessary and appropriate.
- Provide work direction as necessary to other core laboratory personnel, including guidance on optimal workflow and customer service.

PART B – Required Experience, Characteristics and Ability

EDUCATION/KNOWLEDGE REQUIREMENT - Mi be attained only by completing the following (if you	nimum education required to perform adequately in position could reasonably were to recruit today, what qualification would you require?)
	Major field of study or degree emphasis (accounting, economics, etc)
☐ less than high school diploma	
☐ high school diploma or GED	Biology, Life sciences, Computer Science, Mathematics, Chemistry, agriculture or other related field.
COLLEGE LEVEL (choose one) ☐ 1 year ☐ 2 year ☐ 3 year ☐ 4 year	Specialized subject knowledge (cost accounting, MACRO economics, etc.)
☐ Associate's ☒ Bachelor's	,
	Statistics, Molecular Biology and Biochemistry (Desirable)
GRADUATE LEVEL (choose one)	
☐ 1 year ☐ 2 year ⊠ post-graduate	
Minimum Qualifications:	
 2 or more years of experience in either a dry or Evidence of independent research in form of content environment Proficiency with MS Office software (Word, Exc. Successful completion of Criminal History Recontent 	p-authored peer-reviewed publications or experience in working in a core facility cel and PowerPoint). pords Check.
☐ Other License(s) or Certification(s)	
Preferred Qualifications:	
 Ph.D. in Biology, Life sciences, Computer S Minimum 2 years of experience in both a w Experience in ChIP-Seq, ATAC-Seq and w Experience in programming languages sucl Proficiency in working with Linux environments Proficient in statistical methods relevant to a 	h as R, python or Perl. ent.
Competencies required: (i.e. ability to, demonstrat	ed leadership skills, strong communication skills)
 Ability to work in a BSL2 laboratory with ap Excellent interpersonal, written, and verbal Demonstrated problem solving skills. Willingness to learn new skills in Genomics Willingness to learn new skills in core lab o Excellent organizational skills. Demonstrated ability to multi-task in a busy Demonstrated ability to work both independent 	communication skills. Statistics, Computational Biology and Bioinformatics. perations. lab environment.

Work safety requirements:

- Follow safety rules and promote safe behavior
- Help identify unsafe working conditions and notify supervisor or Office of Safety
- Ensure the safety policies and procedures are being followed
- Report incidents and near misses to supervisor or Office of Safety within 24 hours
- Complete all required safety and other mandatory training requirements

Work habit requirements:

- Attendance and punctuality consistently maintained; follows correct procedures for notification
- Use work time appropriately for work activities; attend meetings promptly
- Demonstrate flexibility in scheduling and accepting work assignments
- Follow procedures for requesting leave and reporting absences; provide necessary documentation/releases
- · Remain calm, professional, and collegial in all circumstances

osition Number	Job Family and Title of Persons Supervised	FTE
\	(Insert information as specific to core)	
***	TOTAL	0
IDIRECT SUPERV	TSION: Total number of classified positions indirectly supervised:	O

4. HAZARDOUS WORKING CONDITIONS	Unusual or hazardous working conditions related to performance of duties: General safety conditions associated with BSL level 2 research laboratory.
	Precautionary measures taken to avoid those unusual or hazardous working conditions: Ongoing training to OSHA and UND Safety Office procedures
	Frequency of occurrence of unusual or hazardous working conditions:
	Rarely

5. This position is classified as: 🛛 Exempt 🗆 Non-Exempt (eligible for overtime)				
Executive Meets FLSA Salary Requirements	Administrative ☐ Meets FLSA Salary Requirements	Professional ☑ Meets FLSA Salary Requirements		
☐ Primary duty is management of the enterprise or recognized department/ subdivision	☐Primary duty is office/non-manual work related to management policies/general business operations	⊠Primary duty is work requiring knowledge of advanced type in science or learning		
□Does the employee have the authority to hire or fire or provide suggestions/ recommendations to hire, fire, promote or change status of other employees	□Work directly related to academic instruction or training	☐Work is original and creative in a field of artistic endeavor ☐Work is teaching in educational institution		
		☐Work requires theoretical/practical application of highly specialized knowledge in computer systems analysis, programming and software engineering and employee is employed and engaged in these activities		
□Customarily and regularly directs the work of two or more other employees	☐Customarily and regularly exercises discretion and independent judgment in matters of consequence	⊠Work requires consistent exercise of discretion and judgment		

Employee is required to:	Never	1-33% Occasionally	34-66% Frequently	66-100% Continuously
Stand			Х	
Walk		X		
Sit		Х		
Use hands dexterously (use fingers to handle, feel)		X		
Reach with hands and arms		Х		
Climb or balance	X			
Pulling/Tugging/Twisting	X			
Stoop/kneel/crouch or crawl	Х			
Talk or hear		Х		
Taste or smell	X			
Lift & carry: up to 10 pounds		X		
up to 25 pounds	X			
up to 50 pounds	X			
up to 75 pounds	X			
up to 100 pounds	X			
more than 100 pounds	X			
Other (Please Explain):				
My signature below indicates I have read and understand position. I also understand that my supervisor and the is schedule to meet business needs.	I the description nstitution has th	n of the duties and re ne right to make char	sponsibilities assinges to duties and	gned to the work
Employee's Signature		Date		

Last updated 04/20/2017

PLEASE ATTACH A BLACK AND WHITE ORGANIZATIONAL CHART

Supervisor's Signature

Bony De Kumar Genomics Core Manager 00014520 Danielle Perley
Research Specialist
00100172

Genomics Scientist 00016005

Hannah Ness Research Specialist 00013424