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2019 High School and Undergraduate Internship in Bio...

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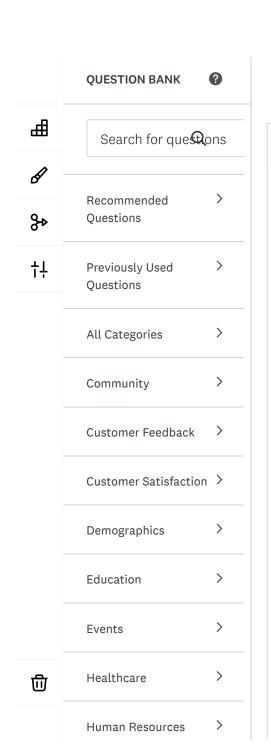


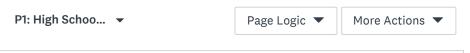
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PRESENT RESULTS





2019 High School and Undergraduate Internship in Biomedical Informatics

High School and Undergraduate Internship Application Winter 2018 Biomedical Informatics

This is the first part of the application process for the internship program in biomedical informatics at OHSU.

This is a 10 week opportunity with projects starting January 7, 2019. Interns will work 10 hours per week and will be paid \$12.00 per hour.

Once you complete the online application, the next step will be to provide the following documents:

- 1. Transcripts unofficial transcripts acceptable, email pdf email to ilgan@ohsu.edu or fax to 503-346-6815
- 2. One letter of recommendation, emailed to ilgan@ohsu.edu



* 1. Please enter the following information to start your application



Name:	
Address:	
City/Town:	
State:	select state ▼
ZIP:	
Country:	
Email	New version available!
Address:	Saving changes
Phone Number:	

2. Demographic Infomation (Optional)

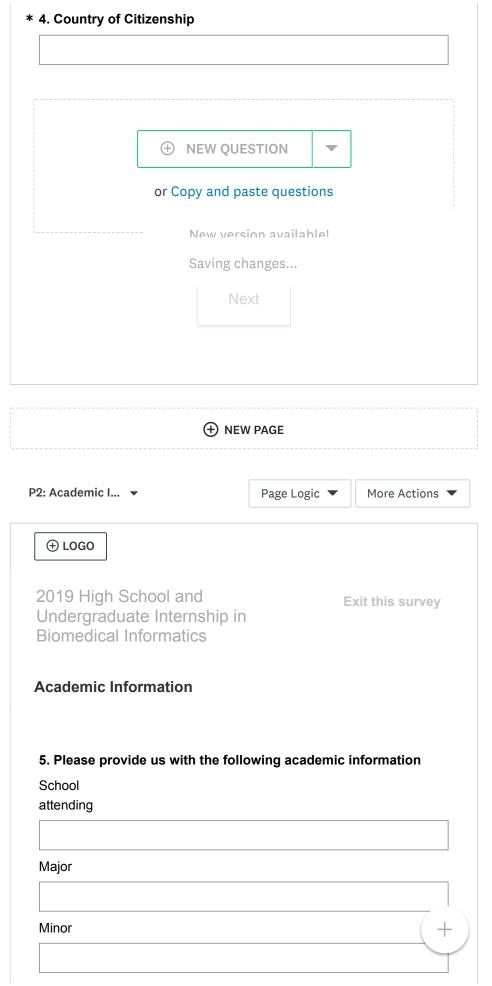
What groups does NIH consider to be in need of a special recruitment and retention plan in order to diversify the biomedical, behavioral, clinical, and social sciences workforce?

A. Individuals from racial and ethnic groups that have been shown by the National Science Foundation to be underrepresented in health-related sciences on a national basis (see data at http://www.nsf.gov/statistics/showpub.cfm?

TopID=2&SubID=27 and the report Women, Minorities, and Persons with Disabilities in Science and Engineering, 2007, p. 262). The following racial and ethnic groups have been shown to be underrepresented in biomedical research: American Indians or Alaska Natives, Blacks or African Americans, Hispanics or Latinos, Native Hawaiians or Other Pacific Islanders. In addition, it is recognized that under-representation can vary from setting to setting and individuals from racial or ethnic groups that can be convincingly demonstrated to be underrepresented by the grantee institution should be included in the recruitment and retention plan.

- B. Individuals with disabilities, who are defined as those with a physical or mental impairment that substantially limits one or more major life activities.
- C. Individuals from disadvantaged backgrounds who are defined as:
- 1. Individuals who come from a family with an annual income below established low-income thresholds. These thresholds are based on family size, published by the U.S. Bureau of the

For individuals from must be able to demo	by the Secretary for use. The Secretary per at http://aspe.hhs.gov/low-income backgrobnstrate that such cadisadvantaged assisollowing student loance, Loans for Disadvareceived scholarship	use in all health iodically publishes v/poverty/index.shtml. unds, the institution indidates (a) have tance; or (b) have ins: Health Professional intaged Student ios from the U.S.
2. Individuals wh environment such as environments that ha inhibited the individu abilities necessary to career.	ve demonstrably and al from obtaining the	d recently directly e knowledge, skills, and
http://grants.nih.gov/	training/faq_diversit	
	Yes	No
Are you an Underrepresented Minority?		
Are you an Individual with a disability?		
Are you economically disadvantaged?		
3. Please describe yo	ur race/ethnicity.	
American Indian of	or Alaska Native	
Asian		
Black or African A	merican	
Native Hawaiian o	or Other Pacific Island	er
White		
Other (please spe	cify)	+



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Biomedical Info	ormatics			
* 7. Please rank you	-	-	-	
faculty lead(s), the		2nd	3rd	4th



1st 2nd 3rd 4th Semi-structured Information Retrieval in **Clinical Text for** Cohort Identification Faculty: William Hersh, MD; Steven Bedrick, PhD; Aaron Cohen, MD New version available! The overall goal this project is to Saving changes... develop method: identifying patients who are potential candidates in clinical studies from the data in their electronic health record. Identifying patients and recruiting them to participate in specific studies can be very difficult. In this project, we are using a data set of patient records to develop generalized approaches to address this problem. Most of the will involve some programming, with different aspects of the project requiring Python, R, or Java. The specific part of the project and language required will depend on the project needs and student capabilities.

	1st	2nd	3rd	4th
Care Management Plus				
Faculty: David Dorr,				
Care Management Plus focuses on understanding how data, information, and knowledge can				
improve the heal and well-being o	New ver	sion availal	nlei	
our most vulners populations,	Saving o	hanges		
including older adults and those with multiple chronic	\bigcirc			
with this team might include focusing on risk stratification, predictive analytics, or studying models of care intended to improve coordination and management of high needs patients.				
ntegrating care hrough tandards-based nformation xchange between patient risk				
essessment tool and electronic health record faculty: Karen Eden, PhD; Ben Drwoll, MD; Heidi Nelson, MD, MPH; Villiam Hersh, MD Although computer- hased decision aids have guided health hare for years, they here typically				+

1st 2nd 3rd 4th standalone applications that fail to connect with the patient's larger healthcare experience. Clinicians and health systems seek further integration of decision aids into New version available! point of care encounters with Saving changes... patients as well a into the electronic health record (EHR) itself. Decision aids could be enhanced by connecting directly to the EHR to leverage existing data, improve accuracy and consistency of patient information, and reduce data collection efforts of patients and clinicians. Integration would also provide the patients and clinicians opportunities to verify, update, and correct information. We are working toward such an integration, and we seek the help of a student to develop an interface between the EHR and Mammoscreen (mammoscreen.org) using the emerging Fast Health Interoperability Resources (FHIR,

1st 2nd 3rd hl7.org/fhir) standard and the Substitutable Medical Apps, Reusable Technology (SMART, smarthealthit.org) framework. Initial work will include New version available! configuring a tes environment and Saving changes... simulated datase that can be used to prototype the integration. Basic experience with Javascript or a similar programming language is required. This internship could be completed remotely or on campus.



4th

1st 2nd 3rd 4th **Evaluation of EHR** system implementation and workflow at an academic medical center. Faculty: Drs. Michael Chiang & Michelle Hribar Ongoing projects New version available! involve analysis outcome measu Saving changes... such as speed, efficiency, and documentation quality; as well as optimization of clinical workflow using EHR data and computer simulations. Skills: statistical analysis (e.g. R), computer programming. On campus internship



	1st	2nd	3rd	4th
Artificial Intelligence for Diagnosis of Retinal Disease Faculty: Drs.				
chael Chiang, yashree Ipathy-Cramer, d Kemal Sonmez: is project invo				
lesign and	New ver	sion availal	nlei	
aluation of agnostic	Saving c	hanges		
Igorithms (e.g. nachine learning, leep learning) and omparison to nterpretation by uman experts. Skills: computer grogramming, latabase rchitecture, tatistical analysis. On campus nternship.				
nderstanding the ble of the icrobiome in adder Health aculty: Lisa arstens, PhD inderstanding the le of the icrobiome in adder health. The rerall goal of this search is to inderstand how the icrobiomes of the it, vagina, and adder contribute bladder health ind overactive				
bladder symptoms. Intern projects include developing,				+

3rd

4th

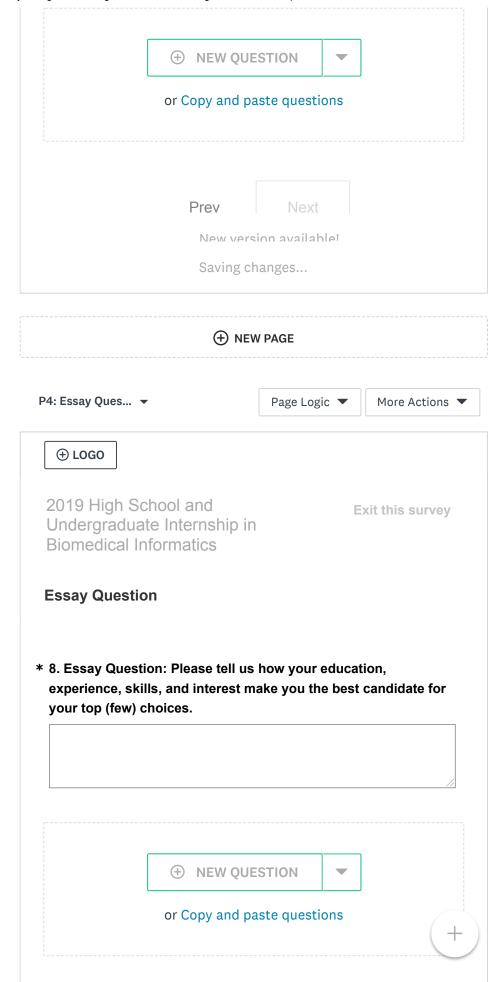
1st 2nd testing, and improving the pipelines for handling the clinical data associated with these projects (using REDCap), and bioinformatic pipelines for handling 16S rR New version available! gene sequencing data as well as Saving changes... NMR metabolon data (primarily in R). The projects will provide experience of analysis and biological interpretation of socalled 'big data' that arises from the rich and complex datasets generated by high throughput techniques used in basic research. Excellent recordkeeping skills and self-motivation are essential. Some familiarity with programming and



statistical analysis are preferred but not essential.

1st 2nd 3rd 4th **Understanding the** brain - bladder connection Dr. Lisa Karstens, PhD - In collaboration with Drs. Damien Fair and Rahel Nardos, we are using advanced New version available! neuroimaging techniques to Saving changes... understand how brain regulates bladder function and if there are functional and structural differences between women with overactive bladder syndrome and healthy controls. Interns will become exposed and learn state of the art neuroimaging techniques and data analysis, including using the Human Connectome Project (HCP) pipeline for data processing. Familiarity with command line programming and statistics are beneficial but not necessary. Selfmotivation and organization skills are essential.





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Biomedical Informatics Internship Program 3181 SW Sam Jackson Park Rd **BICC 504** Portland, OR 97239 Specific questions can be directed to Andrea IIg at ilgan@ohsu.edu or 503-494-2547 New version available! Saving changes... or Copy and paste questions Prev H NEW PAGE

ENGLISH

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