

# Summer 2022 High School and Undergradu...



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## Summer 2022 High School and Undergraduate Internship in Biomedical Informatics

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### High School and Undergraduate Internship Application Summer 2022 Biomedical Informatics

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

This is a 10 - 12 week opportunity with projects starting June 2022. Interns will work 40 hours per week and will be paid \$15.00 per hour.

Due to Oregon State Law - High School students must be 16 years of age when the internship project begins.


Due to Funding Agency - this program is open to U.S. Citizens and Permanent Residents only.



Please Note: In compliance with Oregon law, OHSU's COVID-19 Immunization and Education policy will go in effect Oct. 18, 2021. Visitors, volunteers and inters who have an in-person experience at OHSU must be fully vaccinated (14 days after last dose). Exception requests will not be accepted. Please be prepared to provide proof of vaccination, or to receive for your in-person experience at OHSU if you are not compliant.

Once you complete the online documents:

1. Transcripts - unofficial transcripts
2. One letter of recommendation



### Multilingual Surveys

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**\* 1. Please enter the following information to start your application**  0

Name:

Address:

City/Town:


State:

ZIP:

Country:

Email Address:

Phone Number:

**2. Date of Birth (mm/yyyy)**  0

**3. Demographic Information (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 identified. The institution should be include

**B. Individuals with disabilities or physical impairment that substantially**

**C. Individuals from disadvantaged backgrounds:**

**1. Individuals who come from low-income backgrounds. These thresholds are published by the Bureau of the Census; adjusted**

**adjusted by the Secretary for use in all health professions programs. The Secretary periodically publishes these income levels at <http://aspe.hhs.gov/poverty/index.shtml>. For individuals from low-income backgrounds, the institution must be able to demonstrate that such candidates (a) have qualified for Federal disadvantaged assistance; or (b) have received any of the following student loans: Health Professional Student Loans (HPSL), Loans for Disadvantaged Student Program; or (c) have received scholarships from the U.S. Department of Health and Human Services under the Scholarship for Individuals with Exceptional Financial Need.**

**2. Individuals who come from a social, cultural, or educational environment such as that found in certain rural or inner-city environments that have demonstrably and recently directly inhibited the individual from obtaining the knowledge, skills, and abilities necessary to develop and participate in a research career.**

[http://grants.nih.gov/training/faq\\_diversity.htm#867](http://grants.nih.gov/training/faq_diversity.htm#867)  0

	Yes	No
Are you an Underrepresented Minority?	<input type="radio"/>	<input type="radio"/>
Are you an Individual with a disability?	<input type="radio"/>	<input type="radio"/>
Are you economically disadvantaged?	<input type="radio"/>	<input type="radio"/>

**4. Please describe your race/ethnicity.**  0

American Indian or Alaska Native

Asian



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- Black or African American
- Native Hawaiian or Other Pacific Islander
- White
- Other (please specify)

**\* 5. Country of Citizenship**



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**Academic Information**

**6. Please provide us with the following academic information** 💬 0



School attending

Major

Minor


Dates attended

Current class in school

Completed credit hours

Current cumulative GPA

Anticipated graduation date



**Multilingual Surveys** ×

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**7. Please provide information about experience/classes you have had in the following areas** 0

Programming experience

Quantitative or Qualitative experience

Statistical skills

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Summer 2022 High School Internship in Biomedical

### Project Opportunities



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**\* 8. Please rank your top 3 internships. In each question, the faculty lead(s), the description, and the skills required are listed.** 0

1st

2nd

3rd



1st

2nd

3rd

**Electronic Care Planning for Patients with Multiple Chronic Conditions**

Faculty: Dr. David Dorr

Collaborating on plans of care for patients with multiple chronic conditions can be challenging. Aligning patients' values, goals, and preferences with medical evidence and many care teams' input requires substantial work. A new application using Fast Healthcare Interoperable Resources that has both patient- and care team-facing components is being implemented at OHSU, and a student is sought to help design, implement, and evaluate usability and usefulness testing.



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1st

2nd

3rd

**High Blood Pressure patient-facing clinical decision support**

Faculty: Dr. David Dorr

High blood pressure is one of the most common chronic conditions in adults older than 50, and the most common contributing factor for heart attacks and strokes. Significant evidence exists about both pharmacologic and non-pharmacologic methods to lower blood pressure, but they require substantial shared decision making and patient motivation. The intern will help us with our patient-facing HBP application; depending on their skill set, help programming, testing, or evaluating the tool with patients and care teams.



**Multilingual Surveys**

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1st

2nd

3rd

Secondary use of electronic health record data


Faculty: Dr. Michelle Hribar

My group focuses on the reuse of data in the electronic health record (EHR) for research in ophthalmology. Ongoing projects include analysis of data quality, building predictive models, and integration of models into the EHR. Skills: statistical analysis (e.g. R), computer programming.

**Understanding the Role of the Microbiome in Bladder Health**

Faculty: Dr. Lisa Karstens

The overall goal of this research is to understand how the microbial communities of the gut, vagina, and bladder contribute to bladder health and overactive



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1st

2nd

3rd

bladder symptoms. Intern projects include developing, testing, and improving the pipelines for handling the clinical data associated with these projects (using REDCap), and bioinformatic pipelines for handling 16S rRNA gene sequencing data as well as NMR metabolomics data (primarily in R). The projects will provide experience of analysis and biological interpretation of so-called 'big data' that arises from the rich and complex datasets generated by high throughput techniques used in basic research. Excellent record-keeping skills and self-motivation are essential. Some familiarity with programming and statistical analysis are preferred but not essential.



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### Essay Question

**\* 9. Essay Question: Please tell us how your education, experience, skills, and interest make you the best candidate for your top (few) choices.** 0

+ NEW QUESTION ▼

or [Copy and paste questions](#)



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### Finishing up the application process

\* 10. How did you hear about this program? 0

11. Are you planning to pursue graduate education? If so, in what field. 0

Thank you for applying to the summer undergraduate internship program in biomedical informatics at OHSU.

**The application deadline is February 28, 2022.** Candidates will be notified the first of April regarding acceptance into the program.

Please remember to submit the additional documents to complete your application.

- 1. Transcripts - unofficial transcripts are acceptable, email pdf to [ilgan@ohsu.edu](mailto:ilgan@ohsu.edu)
- 2. One letter of recommendation, emailed to [ilgan@ohsu.edu](mailto:ilgan@ohsu.edu)


Specific questions can be directed to Andrea Ilg at [ilgan@ohsu.edu](mailto:ilgan@ohsu.edu)

0




 NEW QUESTION 

or [Copy and paste questions](#)



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ENGLISH 

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