COBIP
COMPUTATIONAL OMICS AND
BIOMEDICAL INFORMATICS PROGRAM

OHSU

MASTER OF SCIENCE IN COMPUTATIONAL HEALTH INFORMATICS (CHIP)

Be part of the next generation of scientists working on biomedical informatics, computational omics, data science, and imaging to improve healthcare and public health in Africa.

applyonline.uct.ac.za
for 2026 enrolment
before the
30 September 2025 deadline

A **limited** number of full scholarships are available on a competitive basis

Please note that applying for a scholarship is separate from applying for the programme, and only those accepted into the programme will be considered for a scholarship. If you've applied for enrolment in the programme (link above), you may proceed to apply for a scholarship. Send an email to **chipcobip@gmail.com** with:

- A letter of motivation (max 500 words) outlining your research interests and why you should be considered for the programme and scholarship
- Your full CV
- Copies of your academic transcripts

Admission requirements

To be eligible for consideration for admission you need to:

- Have obtained at least 65% at Honours level (South Africa National Qualification Framework level 8, i.e. a qualification equivalent to a four-year degree), in accordance with UCT's general graduate admissions criteria. Your qualification should be in any suitable discipline including statistics, general biology, genetics, epidemiology, bioinformatics, computer science or engineering.

- Submit a motivation letter (500 words max) delineating your biomedical data science research interests and career goals, which will form part of your admission assessment.

- Have proven proficiency in written and spoken English.

- Be computer literate and have access to a computer and the internet.

Areas of learning

University of Cape Town (UCT) modules
- Bio-Computing (*core module*)
- Bioinformatics programming with python (*core module*)
- Machine learning and biomedical data science (*core module*)
- Omics Data Mining
- Omics Data Generation
- Population Genomics
- Omics-Wide Association Studies
- Pharmacogenomics and the Microbiome
- Omics for Industry
- Computational Phylogenetics

Oregon Health & Science University (OHSU) modules
*Online and Asynchronous
- Introduction to Biomedical and Health Informatics

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