

PhD Interdisciplinary Graduate programme (IGP) in digital
molecular analytics
Nanyang Technological University

Direct Link: <https://www.AcademicKeys.com/r?job=229232>

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Posted Jan. 22, 2024, set to expire May 22, 2024

Job Title PhD Interdisciplinary Graduate programme (IGP) in digital molecular analytics
Department Institute For Digital Molecular Analytics and Science (IDMxS)
Institution Nanyang Technological University
Singapore, Singapore, Singapore

Date Posted Jan. 22, 2024

Application Deadline Jul. 31, 2024

Position Start Date Available immediately

Job Categories Graduate Student

Academic Field(s) Engineering - Other

Job Website <https://www.idmxs.org/opportunities/phd-programme/>

Apply Online Here <https://venus.wis.ntu.edu.sg/GOAL/OnlineApplicationModule/frmOnlineApplication.ASPX>

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Job Description

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Apply now for our fully funded PhD scholarships at the Institute for Digital Molecular Analytics & Science (IDMxS)

IDMxS is currently offering fully funded PhD scholarships for outstanding students at Nanyang Technological University (NTU), Singapore.

We are inviting students with a strong, diverse background in science, technology, engineering and mathematics to apply for our PhD Interdisciplinary Graduate programme (IGP) in digital molecular analytics.

Background

IDMxS is a newly established multidisciplinary Research Centre of Excellence located in NTU, Singapore. We are aiming to interface the biological world with information technology and data sciences by developing integrated systems that can monitor disease threats, population health (health promotion, preventative healthcare, early diagnosis and intervention), food safety, the environment, and potential security threats.

In addition, we have a fully integrated open-lab philosophy, with state-of-the-art equipment and revolutionary infrastructure, and are well positioned to grow as a global leader, recruiting and developing talents at all levels.

IGP-IDMxS Phd Programme

The IGP-IDMxS is a fully funded 4-year Ph.D. programme in IDMxS@NTU that seeks to nurture outstanding students with a passion for interdisciplinary research across areas in Molecular Analytics, Sensor Technology, Data Science and Interfacial Chemistry. Our research focuses on:

- Modular detection innovations that enable biomolecular recognitions to be integrated with portable devices;
- Developing new methods and devices to convert optically detectable chemical changes into digital signals;
- Innovations in data analysis strategies to enhance information extraction allowing high levels of accuracy in detection outcomes;
- Developing biomedical application prototypes to lead the way for digital molecular analysis in next-level generation diagnostics.

The successful candidate will have the opportunity to work closely with our dedicated researchers at

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IDMxS, faculty from colleges and institutes across NTU, and other collaborators from universities such as NUS. They will also receive specialized training in interdisciplinary and collaborative sciences.

We welcome highly motivated candidates with a strong, diverse background in science, technology, engineering and mathematics to join our PhD programme.

What we offer

- Ph.D students in our program will participate in a professional graduate college program specializing in interdisciplinary research, including lectures and dedicated seminars, whilst benefiting from the scientific offerings of IDMxS
- An international and structured PhD program taught in English
- Friendly and multi-disciplinary environment
- State-of-the-art facilities and cutting-edge research projects and equipment
- Opportunities to complete a research-based PhD project in IDMxS
- Full tuition fee subsidy for up to 4 years of candidature*
- Monthly stipends for up to 4 years of candidature*
- Allowances* to attend scientific conferences

**Subject to satisfactory academic and research progress*

How do I apply?

- Visit the admission guide
- Submit your online applications at NTU Application Portal
- For more information on how to apply and admission requirements, please click [here](#)
- Please visit our website for further information on our PhD programme and institute

EEO/AA Policy

IDMxS is a new, unique interdisciplinary Research Centre of Excellence (RCE), funded by Ministry of Education (Singapore), Nanyang Technological University and National University of Singapore. Hosted by NTU in partnership with NUS, IDMxS is the world's first organized effort focused on interfacing the biological and living world with the world of information technology and data science whilst providing fundamental scientific development, grounded in materials science, optics, and interfacial chemistry.

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Contact Information

Please reference Academickeys in your cover letter when
applying for or inquiring about this job announcement.

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