

**NAME OF THE PROGRAMME: DOCTOR OF PHILOSOPHY (PhD)
(BIOLOGY)**

Programme Type	Research
Status	Proposal
Start Date	August and January
Module	SB-6000
Description	<p>The Environmental and Life Sciences Graduate Programme offers Doctor of Philosophy (PhD) in Biology. It provides a broad laboratory and/or field training, and a comprehensive educational experience in environmental and life sciences, which can lead to a variety of careers in the government agencies and private sectors.</p> <p>Fields of study include cell and molecular biology, genetics, biochemistry and biotechnology, developmental and reproductive biology, ecology (terrestrial, marine and aquatic) and conservation biology, behavioural ecology, invasive ecology, marine and aquatic biology, plant and animal sciences, microbiology, botany, plant taxonomy and systematics, ethnobotany and medicinal plants, environment and climate change. The excellent laboratory and outdoor field facilities, and a field studies centre in the tropical rainforest (under Institute for Biodiversity and Environmental Research, IBER) strengthen both teaching and research in the broad field of Biology.</p> <p>Candidates will perform a research project under the supervision of staff from the Environmental and Life Sciences Programme and frequently in collaboration with staff members from other disciplines.</p>
Research Facilities	<p>Postgraduate students undertake part-time or full-time research in a project supervised by one or more academic staff who are experts in their field. The expectation is that postgraduate students will publish their research in top-tier, international journals. The Environmental and Life Sciences Programme and Institute for Biodiversity and Environmental Research, IBER are equipped with modern scientific equipment and facilities, including herbarium, museum, plant, shade and animal houses, BioFOS boats, wet lab, field map, GPS, UV-Vis spectrophotometers, spectrophotometers, AAS, FIA, microwave and block digestors, microscopes (inverted, stereo, dissecting, compound), muffle furnace, fiber analysis and solvent extraction systems, PCR, DNA sequencer, microtome, ball mill and grinders, rhizotron, etc.</p>
Degree Requirements	<p>A written Thesis is judged acceptable by the Board of Examiners. The Thesis, based on the findings of an approved original research investigation, shall not normally exceed 100,000 words. As stipulated in the relevant UBD regulations, the Examiners may subject a candidate to an oral examination or any other test they think necessary to assess the acceptability of the Thesis.</p>
Entry Requirements	Master's degree in Biology, Biological Sciences or closely related

	<p>discipline from a recognised university, or First class honours BSc degree in Biology, Biological Sciences or closely related discipline from a recognised university; Subject to the relevant UBD regulations, and depending on the merits of each case, an MSc by Research candidate in a relevant field in UBD may be considered for conversion to PhD candidature. Shortlisted applicants may be interviewed on a case by case basis.</p>
Language Requirements	Relevant English language requirement stipulated by UBD.

Programme Details

Aims and Scope	The PhD Programme in Biology aims to make scientists with high level specialised training, in order to cover the increased needs of Industry in related aspects. The scope of the Programme is to provide students the necessary specific scientific information, as well as to train them to develop their skills and analytical capabilities.		
Structure	Students conduct an approved, original research project, with the supervision of one or more staff members. Upon completion of their research, they submit a Thesis, which normally does not exceed 100,000 words.		
Language	The thesis will be written in English; any potential courses will also be given in English.		
Duration of Programme	Full-Time: minimum 36 months, maximum 60 months	Part-Time: minimum 48 months, maximum 84 months	
Areas of Research/Specialisation	Cell and Molecular Biology, Genetics, Biochemistry, Biotechnology, Developmental Biology, Reproductive Biology, Ecology, Conservation Biology, Marine and Aquatic Biology, Plant and Animal Sciences, Microbiology, Botany, Plant Taxonomy and Systematics, Behavioural Ecology, Invasive Ecology, Ethnobotany and Medicinal Plants, Environment and Climate Change. More areas will be provided upon arrival of new staff.		
Attendance Type	Full-Time/Part-Time		
Period of Candidature	Ful-Time:	36-60 months	Part-Time: 48-84 months
Assessment	Assessment includes examination of the Thesis by internal and external examiners. As stipulated in the relevant UBD regulations the examiners may subject a candidate to an oral examination or any other test they think necessary to assess the acceptability of the Thesis. Periodic assessment of the progress of the candidate is carried out as stipulated in the relevant UBD regulations.		
Demand	Applicants are expected to join the Programme from Brunei Darussalam and overseas. The number of applicants is expected to increase in the future, as the Programme develops a track record.		
Future Development	The Programme is expected to attract students and to develop according to the demands of the community, the industry and the Academia. New supervisors that will join Environmental and Life Sciences in UBD will also add new disciplines of research.		

	Increasing number of interdisciplinary and transdisciplinary research is expected to be developed.
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Major Areas	Cell and Molecular Biology, Biochemistry and Biotechnology, Developmental and Reproductive Biology, Ecology and Conservation Biology, Plant and Animal Sciences, Marine and Aquatic Biology, Microbiology, Botany, Ethnobotany and Medicinal Plants, Environment and Climate Change.
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For More Information

Contact	Programme Leader in Environmental and Life Sciences, Faculty of Science (FOS), UBD
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