UNIVERSITY OF THE **FREE STATE**
UNIVERSITEIT VAN DIE **VRYSTAAT**
YUNIVESITHI YA **FREISTATA**

DEPARTMENTAL APPLICATION FOR POST-GRADUATE STUDY

DEPARTMENT OF MICROBIOLOGY AND BIOCHEMISTRY

TITLE and SURNAME: _____ **FIRST NAMES:** _____

UFS STUDENT NUMBER: _____

MOBILE NUMBER: _____ **E-MAIL** _____

DEGREE: ☐ MSc ☐ PhD

DISCIPLINE: ☐ Microbiology ☐ Biochemistry ☐ Microbial Biotechnology

RESEARCH INTEREST: (1) _____

(2) _____

- **Microbial Diversity:** We find and describe yeasts, bacteria, and archaea from everyday environments to extreme habitats. Who knows what these amazing organisms can teach us?
- **Human and Animal Health:** Understanding pathogenic microbes as well as the biochemistry of certain non-infectious diseases will improve treatment and lead to a better quality of life.
- **Drugs and Vaccines:** Rational drug and vaccine design in the department focuses on infections and diseases affecting humans, animals, and plants.
- **Green Chemistry:** Microorganisms or enzymes are used to produce chemicals that can be used for renewable feedstocks, produce less pollution, are more energy-efficient and more specific.
- **Microbial Ecology and Biotechnology:** Our research advances the discovery and application of beneficial microorganisms and microbial processes by exploring plant-microbe interactions and microbial community dynamics to develop sustainable biological technologies for production systems.

Name of supervisor: _____ **Supervisor Signature:** _____
(Only applicable to students who completed their preceding degree at UFS)

Previous degrees: _____
(Curriculum vitae and full study record to be included; **not necessary if previous degrees were awarded by UFS.**
If previous degrees were obtained from a non-South African university, a **SAQA-evaluation certificate** might be requested prior to final selection; you will be informed if required.)

If your previous degrees are not in Microbiology or Biochemistry, please supply information concerning any practical experience that you may have in these disciplines:

E-mail application to: Prof. Trudi O'Neill, oneillhg@ufs.ac.za
Further info is available at https://www.ufs.ac.za/mb