

University of New South Wales

School of Computer Science and Engineering

Attainment of UNSW Graduate Attributes and Engineers Australia targeted learning outcomes Bioinformatics Engineering

Background

Your degree program aims to provide an environment that fosters the *attributes* listed in the table below. We ask you to reflect on: a) your learning during your university studies; and b) your professional practice whilst undertaking your industrial training. Near the completion of your degree, we invite you to express your thoughts in the table below about how you have achieved each of the outcomes listed. The items in the table are a compiled mix of both UNSW Graduate Attributes and Engineers Australia targeted learning outcomes

Try to reflect on each of the questions listed below before you write a response. You might like to consider how the courses, workshops and industrial training, helped you to attain the attributes identified below. Briefly mention examples and evidence (eg COMPxxx, project yyy) of what and how you believe you have gained or improved these attribute.

Reflecting upon your university experiences might show you that you have learnt considerably more than just programming skills. You are becoming a professional, not merely someone who analyses and designs computing systems.

Submit this document with your Industrial Training Report. You might also wish to show it to prospective employers.

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Attainment of UNSW Graduate Attributes and Engineers Australia targeted learning outcomes

Student Name:

ID:

Date:

Program:

Stage:

Knowledge of fundamentals in science (including biology, mathematics, statistics and computer science) and engineering (software and computational infrastructure design and implementation).

In-depth technical competence in system analysis and design.

The skills involved in scholarly enquiry in both biological and computing domains. The capacity for analytical and critical thinking and for creative problem solving.

A capacity for analysing complex problems in biology or similar application domains, and designing and implementing appropriate computational solutions.

Ability to conduct a software or bioinformatics engineering project.

Understanding of the business or professional environment.

Ability to communicate effectively, with the engineering team, with users and domain experts, and with the community at large.

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Ability to manage information and documentation. The skills to locate, evaluate and use relevant information technology.

Capacity for creativity and innovation.

Professional Attitudes. Understanding of professional and ethical responsibilities, and commitment to them and social responsibility.

Ability to function effectively as an individual and in multidisciplinary and multicultural teams, as a team leader or manager as well as an effective team member.

Understanding of social, cultural, global and environmental responsibilities and the need to employ principles of sustainable development.

Capacity for lifelong learning and professional development. An appreciation of, and a responsiveness to, change. The ability to engage in independent and reflective learning.

An appreciation of and respect for, diversity. A capacity to contribute to, and work within, the international community.