

UTS Position Description Template Instructions

UTS:HUMAN RESOURCES

Position Title	Application Developer
Unit/Division or Faculty	<i>Connected Intelligence Centre</i>
Position Number (if known)	
Current HEW Level	Level 7
Job Family(HR Use Only)	
ANZSCO Code (HR Use Only)	

POSITION PURPOSE

The Application Developer will develop dynamic websites for CIC and its projects, and interactive web applications for data access, manipulation, conceptual structuring, and collective intelligence, demonstrating new approaches for students and staff to make sense of complex data. These services will provide intuitive interaction for a diverse user community.

The Developer will work with the Centre Director and other staff to develop technical briefs, specifications, requirements documents, and test plans as required. They will also be supporting and learning from other app developers in UTS.

ENVIRONMENT AND DIMENSIONS

The Connected Intelligence Centre (CIC) is a new research and teaching centre at UTS. Located in the heart of Sydney at the City campus, it has been created to provide a world-class data science and analytics research lab supporting the learning, research and business needs of the University. CIC will collaborate with external organisations, government departments and other universities to deliver its goals and objectives.

CIC is a new centre, so the incumbent will be shaping it from the start as part of a brand new team. The working environment will be a hybrid mix of an advanced research lab competing with the world's best academics, combined with strategic business unit developing services to demonstrate new analytics concepts to UTS, with the most promising becoming mainstream services.

RELATIONSHIPS

Supervision

There are no formal supervisory roles for this position, although the incumbent may need to guide the work of visiting staff and student interns periodically.

This position reports to the Senior Manager and takes direction from the Director

Collaboration and Communication

Internally the position liaises with:

- CIC's Director, other Developers, Research Fellows and Students
- Members of the Information Technology Division
- Members of Faculties and Units

Externally the position liaises with:

- Staff of other universities
- Research and development partners
- Professional associations to maintain up to date knowledge

MAJOR RESPONSIBILITIES

Major Functions	Outcome	Estimated % of Time	Office Use Only
Design, build and administer new CIC websites/applications <ul style="list-style-type: none"> • Design, program, and deliver development projects within designated schedules and budgets: managing your own time well, and estimating timescales • Support development of projects from inception through alpha/beta testing and final delivery 	<i>Dynamic, relevant and leading edge websites and applications, showcasing the CIC, delivered on time</i>	40%	
Install and administer existing web applications (primarily LAMP at present) and extend existing web applications from previous projects	<i>Web applications are operational.</i>	20%	
Identify, communicate, and overcome development problems and creative challenges related to complex web and application-based projects <ul style="list-style-type: none"> • Revise and troubleshoot development work as required 	<i>Web development is progressing and applications are operational despite unexpected problems.</i>	20%	
Act as a go-to person within technical area of expertise <ul style="list-style-type: none"> • Provide tactical application mentorship to other developers in area of expertise 	<i>Cohesive and technically adept team</i>	10%	
Effectively present technical information in one-on-one and small group situations to CIC and general University staff <ul style="list-style-type: none"> • Interact with CIC team members and other staff and students across the University as required, including making engaging demos/presentations 	<i>All stakeholders are informed in plain English.</i> <i>Audiences leave impressed by CIC's technical ability</i>	5%	
Understand and follow CIC's development and creative/design cycles	<i>Development and design are in line with agreed CIC objectives.</i>	5%	

POSITION CHALLENGES

- Having and employing the leadership and self-organising qualities needed to establish an agile development process, with further developers likely to join the team
- New projects may emerge at short notice

- Understanding the importance of user experience and data ethics as the CIC deals with human data and diverse users
- CIC will have a human scale creative culture, but servicing a large university: the incumbent will understand the need to liaise with a wide range of stakeholders to obtain timely signoff for requirements, design specifications and acceptance testing.

AUTHORITY

The incumbent will be relatively free to organise and negotiate work parameters in order to deliver on the above. They will be expected to interpret and advise on software requirements and to ensure software follows agreed University standards.

HEALTH AND SAFETY

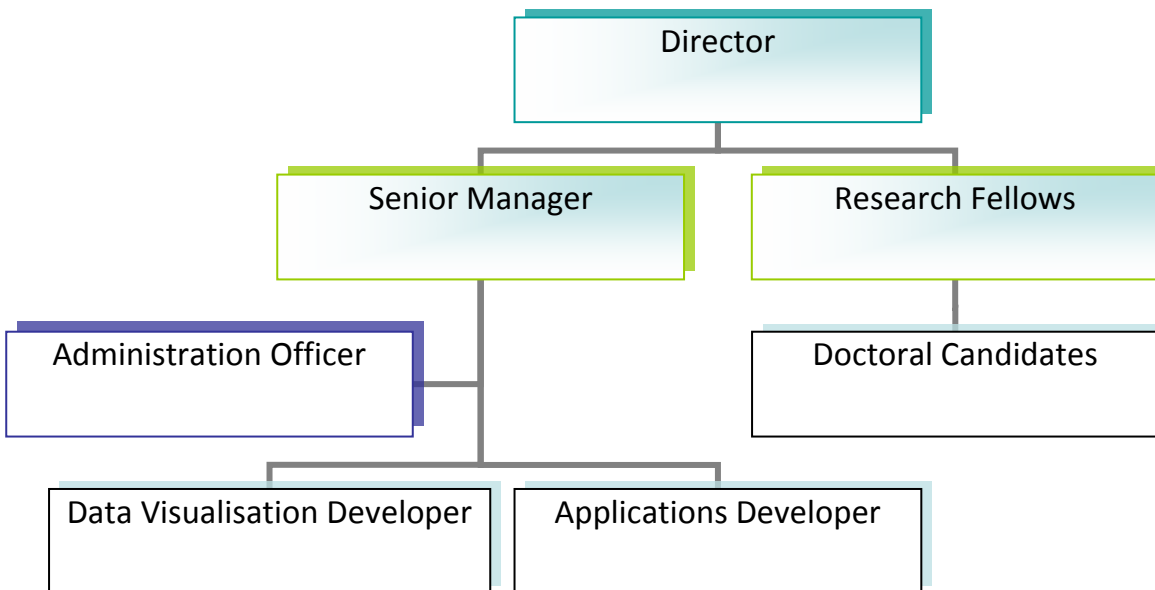
All staff must:

- *Take reasonable care of, and cooperate with actions taken to protect, the health and safety of both themselves and others and*
- *Follow specific health and safety procedures as directed.*

RECORDS MANAGEMENT

- Create and collect records that document your activities.
- Ensure records are captured into the official recordkeeping system.
- Manage records consistent with university procedures.

ORGANISATION CHART



UTS KEY SELECTION CRITERIA

UTS:HUMAN RESOURCES

POSITION: Application Developer
FACULTY/UNIT: Connected Intelligence Centre

Skills and Attributes

- Advanced level in design, maintenance and consumption of APIs/Web Services
- Demonstrable evidence that you are a self-starter, taking responsibility for delivery on time, and make deadline
- Ability to understand creative and project briefs
- Demonstrable presentation skills
- Ability to help researchers and others clarify their requirements, and provide responsive implementations for iterative development
- Proven team skills
- Ability to implements standards and policies for robust application development and support
- Passionate about the user experience
- Committed to writing unit tests
- Pride in writing lean, maintainable, front-end code

Knowledge

- Expert LAMP-stack development and maintenance
- Robust website development using an open source, extensible platform such as Wordpress (working with a graphic designer)
- Robust understanding of HTML, CSS, JavaScript and RESTful Web APIs.
- Robust understanding of security coding practices and techniques
- Robust understanding of model development approaches and methodologies
- *Knowledge of university policies and procedures.*

Qualifications

- Bachelor or Masters Degree in Computer Science or equivalent

Experience

- At least 4 years of relevant development experience
- Experience using template languages such as Jade
- Experience with a one or more high-level JavaScript app frameworks: Angular, Backbone, Ember, Knockout, etc.
- Experience with open source or other software collaboration tools, e.g. GitHub

The following skills would be considered highly advantageous:

- Experience in Wordpress administration and plugin development
- Experience with frameworks for adaptive website rendering for tablet/smartphone
- Experience in data integration and manipulation from varied sources
- Experience with CSS frameworks, e.g. Bootstrap or Foundation

- Experience with iOS and/or Android development
- Experience with NoSQL or full MEAN stack and Node.js/frameworks
- Experience working with Big Data infrastructure and AWS