

# Position Description

<b>College/Division:</b>	ANU College of Engineering & Computer Science
<b>School/Centre:</b>	Research School of Computer Science
<b>Position Title:</b>	Research Fellow
<b>Classification:</b>	Academic Level A - B
<b>Position No:</b>	
<b>Responsible to:</b>	Dr Sergiy Bogomolov

## PURPOSE STATEMENT:

The ANU College of Engineering and Computer Science is dedicated to contributing to The Australian National University's reputation for excellence in research and research-led education. The College is at the leading edge within numerous fields, including logic, algorithms and data, signal processing, artificial intelligence, computer vision and robotics, computational mechanics, materials, fabrication, big software systems, renewable energy, networked systems and quantum cybernetics.

The Research School of Computer Science brings together the best and brightest researchers, scholars and fosters a vibrant culture that prepares our students for a career in a field central to progress in nearly all aspects of life in the 21<sup>st</sup> century.

The purpose of this appointment is to:

1. Strengthen the Research School of Computer Science as an international centre of excellence in the area of cyber-physical systems; and
2. Contribute to the objectives of a project "Compositional Analysis of Autonomous Systems" funded by the Asian Office of Aerospace Research and Development (AOARD).

## KEY ACCOUNTABILITY AREAS

### Position Dimension & Relationships:

The position is located within the Research School of Computer Science, a close-knit research and teaching community, made up of high performing academic and professional staff, students and visitors sharing a deep commitment to transforming the future of engineering for the next generation. The appointee will liaise with relevant professional and academics staff members within the Research School of Computer Science and the ANU as well as establishing relationships with the wider research community to enhance cross-disciplinary collaborations.

As an academic member of the Research School of Computer Science the appointee will be required to contribute to the overall intellectual life of the School, College and University. This includes contribution to research, education and outreach agendas of the School both nationally and internationally in a manner that is appropriate to the level of appointment.

### Role Statement:

In their role as ANU academic level A-B in the Research School of Computer Science the appointee will be expected to:

1. Undertake research in the area of cyber-physical systems with a view to publishing original and innovative results in refereed journals, present research at academic seminars and at national and international conferences, and collaborate with other researchers at a national and/or international level.
2. Supervise students working on individual or group projects at undergraduate, honours, graduate-coursework levels. Assist with supervision of research students.

3. Contribute to the teaching activities of the School at the undergraduate and graduate levels. This includes, but is not limited to, the preparation and delivery of lectures and tutorials, the preparation of online material, marking and assessment, consultations with students, acting as subject coordinators and the initiation and development of course/subject material.
4. Collaborate with senior staff to actively seek and secure external funding including the preparation and submission of research proposals to external funding bodies.
5. Actively contribute to all aspects of the operation of the School.
6. Assist in outreach activities including to prospective students, research institutes, industry, government, the media and the general public.
7. Maintain high academic standards in all education, research and administration endeavours.
8. Take responsibility for their own workplace health and safety and not wilfully place at risk the health and safety of another person in the workplace.
9. Other duties as required consistent with the classification level of the position.

### SELECTION CRITERIA:

1. A PhD (or awarding of a PhD within six months of appointment commencement) in Computer Science, or equivalent qualifications and experience in a related area, with a track record of independent research in the field of cyber-physical system as evidenced by publications in peer-reviewed journals and conferences.
2. Evidence of the ability to articulate and prosecute innovative research in the field of cyber-physical systems and a vision for the activities they will undertake at the ANU.
3. Ability and willingness to teach at all levels.
4. The ability to assist in the supervision of students working on research projects.
5. An ability and commitment to contribute to bids for competitive external funding to support individual and collaborative research activities.
6. Excellent oral and written English language skills and a demonstrated ability to communicate and interact effectively with a variety of staff and students in a cross-disciplinary academic environment and to foster respectful and productive working relationships with staff, students and colleagues at all levels.
7. A demonstrated high-level understanding of equal opportunity principles and a commitment to the application of these policies in a University context.

<b>Supervisor Signature:</b>		<b>Date:</b>	29 August 2018
<b>Printed Name:</b>	Sergiy Bogomolov	<b>Uni ID:</b>	u1023439

### References:

[General Staff Classification Descriptors](#)

[Academic Minimum Standards](#)



# Pre-Employment Work Environment Report

## Position Details

College/Div/Centre	CECS	Dept/School/Section	RSCS
Position Title	Postdoctoral Fellow	Classification	Level B
Position No.		Reference No.	N/A

*In accordance with the Occupational Health and Safety Act 1991 the University has a duty of care to provide a safe workplace for all staff.*

- This form must be completed by the supervisor of the advertised position and forwarded with the job requisition to Appointments and Promotions Branch, Human Resources Division. Without this form jobs cannot be advertised.
- This form is used to advise potential applicants of work environment issues prior to application.
- Once an applicant has been selected for the position consideration should be given to their inclusion on the University's Health Surveillance Program where appropriate – see . [http://info.anu.edu.au/hr/OHS/\\_Health\\_Surveillance\\_Program/index.asp](http://info.anu.edu.au/hr/OHS/_Health_Surveillance_Program/index.asp)  
Enrolment on relevant OHS training courses should also be arranged – see [http://info.anu.edu.au/hr/Training\\_and\\_Development/OHS\\_Training/index.asp](http://info.anu.edu.au/hr/Training_and_Development/OHS_Training/index.asp)
- 'Regular' hazards identified below must be listed as 'Essential' in the Selection Criteria - see 'Employment Medical Procedures' at [http://info.anu.edu.au/Policies/\\_DHR/Procedures/Employment\\_Medical\\_Procedures.asp](http://info.anu.edu.au/Policies/_DHR/Procedures/Employment_Medical_Procedures.asp)

## Potential Hazards

<ul style="list-style-type: none"> <li>Please indicate whether the duties associated with appointment will result in exposure to any of the following potential hazards, either as a <b>regular</b> or <b>occasional</b> part of the duties.</li> </ul>					
<b>TASK</b>	<b>regular</b>	<b>occasional</b>	<b>TASK</b>	<b>regular</b>	<b>occasional</b>
key boarding	<input checked="" type="checkbox"/>	<input type="checkbox"/>	laboratory work	<input type="checkbox"/>	<input type="checkbox"/>
lifting, manual handling	<input type="checkbox"/>	<input type="checkbox"/>	work at heights	<input type="checkbox"/>	<input type="checkbox"/>
repetitive manual tasks	<input type="checkbox"/>	<input type="checkbox"/>	work in confined spaces	<input type="checkbox"/>	<input type="checkbox"/>
catering / food preparation	<input type="checkbox"/>	<input type="checkbox"/>	noise / vibration	<input type="checkbox"/>	<input type="checkbox"/>
fieldwork & travel	<input type="checkbox"/>	<input checked="" type="checkbox"/>	electricity	<input type="checkbox"/>	<input type="checkbox"/>
driving a vehicle	<input type="checkbox"/>	<input type="checkbox"/>			
<b>NON-IONIZING RADIATION</b>			<b>IONIZING RADIATION</b>		
solar	<input type="checkbox"/>	<input type="checkbox"/>	gamma, x-rays	<input type="checkbox"/>	<input type="checkbox"/>
ultraviolet	<input type="checkbox"/>	<input type="checkbox"/>	beta particles	<input type="checkbox"/>	<input type="checkbox"/>
infra red	<input type="checkbox"/>	<input type="checkbox"/>	nuclear particles	<input type="checkbox"/>	<input type="checkbox"/>
laser	<input type="checkbox"/>	<input type="checkbox"/>			
radio frequency	<input type="checkbox"/>	<input type="checkbox"/>			
<b>CHEMICALS</b>			<b>BIOLOGICAL MATERIALS</b>		
hazardous substances	<input type="checkbox"/>	<input type="checkbox"/>	microbiological materials	<input type="checkbox"/>	<input type="checkbox"/>
allergens	<input type="checkbox"/>	<input type="checkbox"/>	potential biological allergens	<input type="checkbox"/>	<input type="checkbox"/>
cytotoxics	<input type="checkbox"/>	<input type="checkbox"/>	laboratory animals or insects	<input type="checkbox"/>	<input type="checkbox"/>
mutagens/teratogens/ carcinogens	<input type="checkbox"/>	<input type="checkbox"/>	clinical specimens, including blood	<input type="checkbox"/>	<input type="checkbox"/>
pesticides / herbicides	<input type="checkbox"/>	<input type="checkbox"/>	genetically-manipulated specimens	<input type="checkbox"/>	<input type="checkbox"/>
			immunisations	<input type="checkbox"/>	<input type="checkbox"/>
<b>OTHER POTENTIAL HAZARDS (please specify):</b>					

<b>Supervisor's Signature:</b>		<b>Print Name:</b>		<b>Date:</b>	
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