UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Software Developer

Faculty/Division	UNSW Canberra
Classification Level	Professional 5/6 broadband
Hours & Span (Category)	O - UNSW Canberra all staff
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A

Position Summary

The Software Developer will work a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

Level 5

- Develop and test generative simulation and AI environments including modelling and visualisation.
- Use, when appropriate, DevOps tools and different programming languages
- Verify and deploy programs and systems and assist with maintaining the teams development environment.
- Troubleshoot, debug and upgrade existing software
- Understand and comply with project specific confidentiality requirements.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable

care to ensure that your actions or omissions do not impact on the health & safety of yourself or others.

Level 6 (in addition to level 5 above):

- Provide expert support
- Perform duties at a skill level that requires a degree, normally with subsequent relevant experience to consolidate the theories and principles learned, or extensive experience (combined with specialised training and/or Diploma or Certificate level education).
- Solve diverse and unusual problems by analysing information where considerable interpretation of existing regulations, policies or procedures is required.

Skills and Experience

Level 5

- Relevant experience in a similar role or equivalent level of knowledge gained through an equivalent combination of relevant experience and/or education/training.
- Excellent Time management, organisation and problem-solving skills, including the ability to meet deadlines
- Demonstrated experience providing effective customer service and support to clients at all levels
- Ability to make sound judgements and work part of a team
- An understanding of and commitments to UNSW's aims, objectives, and values in action, together with relevant policies and guidelines
- Knowledge of coding languages (e.g., C++, Java, Python)
- Knowledge of databases and scripting
- Ability to learn new languages and technologies
- Excellent communication skills
- Resourcefulness and troubleshoot aptitude
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Level 6 (in addition to level 5 above):

- Ability to work both independently and as part of a team
- Practical experience of coding languages (e.g. C++, Java, Python)
- Practical experience knowledge of databases and scripting
- Familiarity with Agile development methodologies
- Experience with software design and development in a test-driven environment

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
- Identification Check
- Australian Work Rights Check

About this document

This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Software Developer

Faculty/Division	UNSW Canberra
Classification Level	Professional 5/6 broadband
Hours & Span (Category)	O - UNSW Canberra all staff
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A

Position Summary

The Software Developer will work a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

Level 5

- Develop and test generative simulation and AI environments including modelling and visualisation.
- Use, when appropriate, DevOps tools and different programming languages
- Verify and deploy programs and systems and assist with maintaining the teams development environment.
- Troubleshoot, debug and upgrade existing software
- Understand and comply with project specific confidentiality requirements.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable

care to ensure that your actions or omissions do not impact on the health & safety of yourself or others.

Level 6 (in addition to level 5 above):

- Provide expert support
- Perform duties at a skill level that requires a degree, normally with subsequent relevant experience to consolidate the theories and principles learned, or extensive experience (combined with specialised training and/or Diploma or Certificate level education).
- Solve diverse and unusual problems by analysing information where considerable interpretation of existing regulations, policies or procedures is required.

Skills and Experience

Level 5

- Relevant experience in a similar role or equivalent level of knowledge gained through an equivalent combination of relevant experience and/or education/training.
- Excellent Time management, organisation and problem-solving skills, including the ability to meet deadlines
- Demonstrated experience providing effective customer service and support to clients at all levels
- Ability to make sound judgements and work part of a team
- An understanding of and commitments to UNSW's aims, objectives, and values in action, together with relevant policies and guidelines
- Knowledge of coding languages (e.g., C++, Java, Python)
- Knowledge of databases and scripting
- Ability to learn new languages and technologies
- Excellent communication skills
- Resourcefulness and troubleshoot aptitude
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Level 6 (in addition to level 5 above):

- Ability to work both independently and as part of a team
- Practical experience of coding languages (e.g. C++, Java, Python)
- Practical experience knowledge of databases and scripting
- Familiarity with Agile development methodologies
- Experience with software design and development in a test-driven environment

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
- Identification Check
- Australian Work Rights Check

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Senior Software Engineer

Faculty/Division	UNSW Canberra
Classification Level	Professional 8
Hours & Span (Category)	O - UNSW Canberra all staff
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

The Senior Software Engineer will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Senior technical leadership role working with the research project team, specifically in administration of digital platforms to support the coding infrastructure and analysis tools.
- Develop and test generative simulation and AI environments including modelling and visualisation.
- Provide advice and guidance on DevOps to group members.
- Manage and undertake the coding support for project's implementation.
- Lead and oversee the final preparation and collation of research reports and publications including software architecture documentation and code documentation.
- Other duties as required within the project.
- Understand and comply with project specific confidentiality requirements.

- Align with and actively demonstrate the Code of Conduct and Values
- Cooperate with all health and safety policy and procedures of the University and take all reasonable care to ensure your actions or omissions do not impact on the health and safety of yourself and others.
- Ensure hazards and risks psychosocial and physical are identified and controlled for tasks, projects, and activities that pose a health and safety risk within your area of responsibility.

Skills and Experience

- A degree in computing science, or a strongly related discipline; or an equivalent combination of relevant experience and/or education/training.
- Excellent DevOps and software development experience including experience with Python.
- Solid skills and knowledge of developing and deploying AI solutions on GPU machines.
- Proven experience using software containerisation products (e.g. Docker)
- Demonstrated ability to communicate and work effectively within a team to track and report progress and deliver project goals (e.g. Jira).
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.
- Experience in development and deployment of physics-based simulation engines such as Gazebo, and/or robotics operating system.
- Experience in artificial Intelligence including generative AI
- Experience in computer simulation and/or computer games

Pre-employment checks required for this position

- Verification of qualifications
- Criminal History Check
- Identification Check
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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Research Associate/
Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic A
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Research Associate/Post-Doctoral Fellow (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.
- Undertake a specific research project under the guidance of a research leader and contribute to development of research activities.
- Support the dissemination of research outcomes through appropriate channels and outlets.
- Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.
- Participate in and/or present at conferences and/or workshops relevant to the project as required.

- Assist with the supervision of research students in the research area where required.
- Meet projects' milestones on time and at the highest level of quality.
- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with confidentiality requirements specific to the project.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in software engineering, digital systems engineering or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in Digital System Engineering or Software Engineering or closely related areas.
- Demonstrated hands-on experience in working with DevOps, Software Patterns, Computer Vision and/or Function Diagrams.
- Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
- Demonstrated track record of publications and conference presentations relative to opportunity.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health & safety (psychosocial and physical) responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
- Identification Check
- Australian Work Rights Check

About this document

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Research Associate/
Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic A
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Research Associate/Post-Doctoral Fellow (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.
- Undertake specific research project/s under the guidance of a research leader and contribute to development of research activities.
- Support the dissemination of research outcomes through appropriate channels and outlets.
- Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.

- Participate in and/or present at conferences and/or workshops relevant to the project as required.
- Assist with the supervision of research students in the research area where required.
- Meet projects' milestones on time and at the highest level of quality.
- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in computer science, electrical engineering, or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in physics-based generative simulation or closely related areas.
- Evidence of experience and/or knowledge of some or all of the following: DevOps, Gazebo, Unity Engine, ROS, EO/IR, LADAR, RADAR, Python, MATLAB, Software Patterns, Function Diagrams, Computer Vision and Rendering.
- Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
- Demonstrated track record of publications and conference presentations relative to opportunity.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Understand and comply with confidentiality requirements specific to the project.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health & safety (psychosocial and physical) responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Research Associate/
Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic A
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Research Associate/Post-Doctoral Fellow (Level A) is expected to contribute towards the research effort of UNSW and to develop their research expertise through the pursuit of defined projects relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Contribute independently or as a team member in collaborative research with a focus to enhance the quality of research outcomes in the discipline area.
- Conduct research (as per the norms of the discipline) and/or enable research teams to create scholarly output that is recognised by peers.
- Undertake specific research project/s under the guidance of a research leader and contribute to development of research activities.
- Support the dissemination of research outcomes through appropriate channels and outlets.

- Undertake discipline-appropriate research activities, e.g. surveys, literature reviews, data gathering and/or recording of results using appropriate research methods.
- Participate in and/or present at conferences and/or workshops relevant to the project as required.
- Assist with the supervision of research students in the research area where required.
- Meet projects' milestones on time and at the highest level of quality.
- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with confidentiality requirements specific to the project.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in computer science, software engineering, or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in generative AI and/or interface design or closely related areas.
- Demonstrated ability to undertake high quality academic research and conduct independent research with limited supervision.
- Demonstrated track record of publications and conference presentations relative to opportunity.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health & safety (psychosocial and physical) responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

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About this document

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Senior Research Associate/ Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic B
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Senior Research Associate/Post-Doctoral Fellow (Level B) is expected to carry out independent and/or team research within the field in which they are appointed.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Engage in individual and/or collaborative research in a manner consistent with disciplinary practice.
- Create scholarly impact in the discipline which is recognised by peers in the advancement of disciplinary knowledge.
- Conduct research/scholarly activities under limited supervision, either independently or as a member of a team (as per the norms of the discipline).
- Mentor and guide students and colleagues and develop the next generation of academics through involvement in supervision of HDRs (as per the norms of the discipline and where appropriate).
- Meet projects' milestones on time and at the highest level of quality.

- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with project specific confidentiality requirements.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in international Law (preferably with the focus on international humanitarian law), defence policy and security studies, or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in international humanitarian law, or closely related areas with a focus on technology, preferably for military applications.
- Demonstrated experience in working on applied law related to AI, autonomous systems, robotics, and/or related fields, preferably in a military context.
- Evidence of experience and/or knowledge of and/or ability to work on some or all of the following: systems engineering ontology design, metric design, standards design, scenario design.
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- Ability to work on a project that requires high levels of planning and organizational skills to meet tight deadlines.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
- Identification Check
- Australian Work Rights Check

About this document

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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Senior Research Associate/
Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic B
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Senior Research Associate/Post-Doctoral Fellow (Level B) is expected to carry out independent and/or team research within the field in which they are appointed and to carry out activities to develop their research expertise relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Engage in individual and/or collaborative research in a manner consistent with disciplinary practice.
- Create scholarly impact in the discipline which is recognised by peers in the advancement of disciplinary knowledge.
- Meet projects' milestones on time and at the highest level of quality.
- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with project specific confidentiality requirements.

- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in Ethics of Technology, Science and Technology Studies (STS), Applied Ethics, or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in applied ethics, value sensitive design, standards development, or closely related areas with a focus on technology, preferably for military applications.
- Demonstrated experience in working on applied ethics related to AI, autonomous systems, robotics, and/or related fields, preferably in a military context.
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- Evidence of experience and/or knowledge of and/or ability to work on some or all of the following: systems engineering ontology design, metric design, scenario design, multi-aspectual systems thinking.
- Ability to work on a project that requires high levels of planning and organizational skills to meet tight deadlines.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications – If applicable
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UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Senior Research Associate/ Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic B
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	16 October 2024

Position Summary

A Senior Research Associate/Post-Doctoral Fellow (Level B) is expected to carry out independent and/or team research within the field in which they are appointed and to carry out activities to develop their research expertise relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Engage in individual and/or collaborative research in a manner consistent with disciplinary practice.
- Create scholarly impact in the discipline which is recognised by peers in the advancement of disciplinary knowledge.
- Conduct research/scholarly activities under limited supervision, either independently or as a member of a team (as per the norms of the discipline).
- Mentor and guide students and colleagues and develop the next generation of academics through involvement in supervision of HDRs (as per the norms of the discipline).
- Meet projects' milestones on time and at the highest level of quality.

- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with project specific confidentiality requirements.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in software engineering, metrics and measurement systems, digital systems engineering or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in metrics and measurement systems or closely related areas.
- Demonstrated hands-on experience in working with system analysis and design, metric design, and/or computational measurement systems.
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
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- Australian Work Rights Check

About this document

This Position Description outlines the objectives, desired outcomes, key responsibilities, accountabilities, required skills, experience and desired behaviours required to successfully perform the role.

This template is not intended to limit the scope or accountabilities of the position. Characteristics of the position may be altered in accordance with the changing requirements of the role.

UNSW CANBERRA

Make it matter.

POSITION DESCRIPTION

Senior Research Associate/
Post-Doctoral Fellow

Faculty/Division	UNSW Canberra
Classification Level	Academic B
Hours & Span (Category)	ACADEMIC POSITION NO SPAN
Position number	Click or tap here to enter text.
Shiftwork status	NOT SHIFTWORKER
Allowances	N/A
On call arrangements	N/A
Original document creation	17 January 2024

Position Summary

A Senior Research Associate/Post-Doctoral Fellow (Level B) is expected to carry out independent and/or team research within the field in which they are appointed and to carry out activities to develop their research expertise relevant to their particular field of research.

The position will work in a high-performing multidisciplinary team working across artificial intelligence, ethics, computer vision, generative AI and simulations, international humanitarian law, digital system engineering, machine learning, and measurements and metrics. The project aims at creating autonomous testing systems to assess military systems' performance when faced with challenging ethical contexts. The project has seven work-packages covering different components of the research and development plan. As a team member, you will play a pivotal role by owning one or more tasks within a work-package.

Accountabilities

Specific accountabilities for this role include:

- Engage in individual and/or collaborative research in a manner consistent with disciplinary practice.
- Create scholarly impact in the discipline which is recognised by peers in the advancement of disciplinary knowledge.
- Conduct research/scholarly activities under limited supervision, either independently or as a member of a team (as per the norms of the discipline).
- Mentor and guide students and colleagues and develop the next generation of academics through involvement in supervision of HDRs (as per the norms of the discipline).
- Meet projects' milestones on time and at the highest level of quality.

- Communicate efficiently and respectfully with team members and effectively reach mutually agreeable solutions.
- Contribute effectively and productively to a culture of higher performing teaming.
- Understand and comply with project specific confidentiality requirements.
- Align with and actively demonstrate the UNSW Values in Action: Our Behaviours and the UNSW Code of Conduct.
- Cooperate with all health and safety policies and procedures of the university and take all reasonable care to ensure that your actions or omissions do not impact on the health and safety of yourself or others.

Skills and Experience

- A PhD in computer science or a related discipline, and/or relevant work experience.
- Proven commitment to proactively keeping up to date with discipline knowledge and developments.
- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in computer simulation or closely related areas.
- Demonstrated hands-on experience in working with some or all of the following: DevOps, Gazebo, Unity Engine, ROS, EO/IR, LADAR, RADAR, Python, MATLAB, Software Patterns, Function Diagrams, and Rendering
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.
- Demonstrated ability to work in a team, collaborate across disciplines and build effective relationships.
- Demonstrated ability to communicate and interact with a diverse range of stakeholders and students.
- An understanding of and commitment to UNSW's aims, objectives and values in action, together with relevant policies and guidelines.
- Knowledge of health and safety responsibilities and commitment to attending relevant health and safety training.

Pre-employment checks required for this position

- Verification of qualifications – If applicable
- Criminal History Check
- Identification Check
- Australian Work Rights Check

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- Demonstrated track record of research accomplishments as a self-motivated individual who aspires to produce novel and cutting-edge research in computer simulation or closely related areas.
- Demonstrated hands-on experience in working with some or all of the following: DevOps, simulation, design of experiments, and red teaming.
- Demonstrated track record in research with outcomes of high quality and high impact with clear evidence of the desire and ability to continually achieve research excellence as well as the capacity for research leadership.
- High level communication skills and ability to network effectively and interact with a diverse range of students and staff.
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