



THE UNIVERSITY
of ADELAIDE

Combatting Wildlife Crime and Preventing Environmental Harm

ARC Laureate Program

Information for candidates

Message from our ARC Industry Laureate Fellow



Wildlife crime is one of the biggest threats to environmental and human security across the globe. In Australia, the illegal harvesting, killing, and trade of wild animals and plants endangers the country's unique biodiversity and poses serious biosecurity risks to natural and agricultural systems.

This Laureate research program will deliver the intelligence tools and technologies, in wildlife forensics, conservation decision making, digital security and environmental law, which are required for step-change reductions in wildlife crime in Australia, and the Asia-Pacific region.

The program will establish new approaches for raising public awareness to the dangers of wildlife crime and provide much needed stewardship to protect Australia's environmental assets and natural capital from current and future threats. We will work closely with our industry partners to deliver on a range of problems that will assist in combatting wildlife crime and preventing environmental harm.

Australia is renowned for its remarkable landscapes and its exceptional

diversity of plants and animals, yet this reputation is at risk from increasing illicit activities, which are directly threatening our environmental security and human wellbeing.

Although governments and policymakers are making invaluable efforts, wildlife crimes are growing worldwide at more than twice the rate of the global economy.

The vision for this Laureate program is to deliver instrumental leadership in scientific research and cooperation between academia and the environmental compliance sector, in order to produce faster responses to new and emerging threats of wildlife crime by providing:

(i) improved environmental security through state-of-the-art detection and prediction of wildlife crime; and (ii) innovative tools for greater prevention and prosecution of wildlife crimes. This will result in a reduction in environmental harm and superior benefits for biodiversity and Australia's natural capital.

This program will also provide a deeper understanding of the economic, social and environmental impacts of wildlife crime, and strengthen Australia's scientific reputation and environmental governance.



© Department of Biodiversity, Conservation and Attractions, Western Australia



© Department of Energy, Environment and Climate Action, Victoria

Our University and Industry Partners

As a member of Australia's G08, the University of Adelaide is recognised as one of the nation's most respected research-intensive universities, challenging and inspiring graduates to make a real difference. The Faculty of Sciences, Engineering and Technology (SET) holds an outstanding reputation for teaching, research, and quality graduates. Comprised of eight schools, 21 centres and five institutes, the Faculty of SET is responsible for teaching over 8,500 students across our three campuses, North Terrace, Waite and Roseworthy, and has an annual budget of \$300 million. The faculty is a significant contributor to the University's research reputation, earning annual research revenue above

\$120 million. Many of our research areas have achieved a world-class research rating of 5 in the 2018 ERA rankings.

The Faculty of Science, Engineering and Technology is responsible for teaching and research across wide range of disciplines including Engineering, Computer and Mathematical Sciences, Architecture, Biology, Physics, Chemistry and Earth Sciences, Agriculture, Food and Wine and Animal and Veterinary Science. The Faculty provides an innovative and agile working environment that champions excellence, diversity and inclusion in our teaching, research, and global engagement leadership.

This ARC Laureate program will collaborate extensively with the Adelaide

Law School located in the Faculty of Arts, Business, Law and Economics as well as the School of Computer and Mathematical Sciences and School of Biological Sciences located in Faculty of Science, Engineering and Technology.

Our key industry partner institution for the ARC Industry Laureate Program is the Australian Museum Research Institute along with a range of other organisations:

- Queensland Police Service
- Department of Environment and Science, QLD
- Department of Biodiversity Conservation and Attractions, WA
- Department for Environment and Water, SA

Positions Available

Five fixed-term contract positions are available as part of the ARC Laureate Program, with the majority of these being located at the University of Adelaide North Terrace campus.

One position (see position five*) will be located in Sydney, New South Wales with regular travel required to Adelaide, South Australia.

1. Level A/B Research and Teaching Academic specialising in **Environmental Law and/or Wildlife Crime** in collaboration with the Adelaide Law School (4-year research and teaching). Refer to Job No: 513079
2. Level A/B Academic specialising in **Environmental Data Science** in collaboration with the School of Computer and Mathematical Science (4-years research and teaching; or 3-years research only). Refer to Job No: 513076
3. Level A/B Academic specialising in **Cyber Security and Digital Forensics** in collaboration with the School of Computer and Mathematical Science (4-years research and teaching; or 3-years research only). Refer to Job No: 513075
4. Level A/B Academic specialising in **Conservation Biology** in the School of Biological Sciences (4-years research and teaching; or 3-years research only). Refer to Job No: 513078
5. Level A/B Post Doctoral Research Fellow specialising in **Wildlife Forensics** in collaboration with the Australian Centre for Wildlife Genomics at the Australian Museum Research Institute (3-years research only)*. Refer to Job No: 513077

*Note: This position will be located in Sydney, NSW with regular travel to Adelaide expected.

All positions will require a National Police Check prior to employment.

Additional information regarding each position is located below and detailed application information can be found by referencing the Job No. at www.adelaide.edu.au

For a confidential conversation about any of these positions, please contact:

Associate Professor Phill Cassey

Phone +61 8313 4042

Email phill.cassey@adelaide.edu.au

For the Environmental Law and/or Wildlife Crime position, please contact:

Professor Judith McNamara

Dean of Law, Adelaide Law School

Email judith.mcnamara@adelaide.edu.au

Selection Criteria

Position 1: Qualifications / Experience

Level A/B Research and Teaching Academic in Environmental Law and/or Wildlife Crime

This position in wildlife and environmental crime offers a unique opportunity to become part of a stimulating international and national legal academic environment, and to make a significant contribution to both the Australian legal academy and an emerging area of transdisciplinary environmental research.

The successful candidate will play an important role in research, teaching, and service at one of Australia's leading law schools. The successful candidate will initially be appointed to a four-year split research intensive role between Assoc Professor Cassey's ARC Industry Laureate Fellowship and the Adelaide law School.

Wildlife crime is one of the greatest threats to environmental and human security across the globe. In Australia, the illegal harvesting, killing, and trade of wild animals and plants endangers the country's unique biodiversity and poses serious biosecurity risks to natural and agricultural systems.

This research intensive position will work with ARC Industry Laureate Cassey to examine the fragmented and inconsistent existing legal frameworks across Australia, and support the development of novel legal mechanisms that protect natural resources more effectively, even in the face of increasing wildlife crime.

Essential Minimum Criteria

1. Completion of a doctoral qualification in law, relevant to Wildlife and Environmental Crime. A PhD in Wildlife and Environmental Crime is preferable but candidates with a PhD in a related area of expertise, such as regulatory and/or criminal theory with an environmental focus, or environmental law with a focus on regulation and enforcement are also encouraged to apply.
2. Expertise in the area of Wildlife and Environmental Crime or closely related expertise with a willingness to rapidly develop networks and a specialist expertise in Wildlife and Environmental Crime.
3. A record of high-quality scholarship and research, with the potential to attract and supervise higher degree students, and to attract external grant income.
4. Evidence of collaborative, interdisciplinary scholarship and a demonstrated ability to work with a diverse range of colleagues across environmental and scientific disciplines.
5. Capability to teach law at undergraduate and/or postgraduate levels.
6. Strong communication and interpersonal skills, ability to work in a team and to engage with the legal profession and other industry groups; including Government, Policing and Compliance stakeholders.

Closing dates

The closing date for all five applications is: **11.55pm on Sunday 28th January, 2024.**

Selection Criteria

Position 2: Qualifications / Experience

Level A/B Academic in Environmental Data Science

This position in environmental data science and decision making offers a unique opportunity to join a stimulating research and teaching environment in the Faculty of Sciences, Engineering and Technology at The University of Adelaide, one of Australia's leading universities.

We are seeking an enthusiastic colleague to work with us to expand our research and educational offerings in statistics, environmental data science, and conservation modelling, and to make a significant contribution to both the Australian mathematical sciences and an emerging area of transdisciplinary environmental research.

The successful candidate will be appointed to a four-year 'fixed-term teaching (20% Teaching Load) and research' in collaboration with the School of Computer and Mathematical Sciences; alternatively, a three-year 'research only' position is available.

Essential Minimum Criteria

1. PhD in data science, mathematical modelling, applied mathematical ecology, or an equivalent qualification.
2. Demonstrated research ability that supports applied research in environmental decision making related to A/Prof Cassey's ARC Industry Laureate Fellowship 'Combatting Wildlife Crime and Preventing Environmental Harm', particularly in conservation modelling and operations research.
3. Record of research achievements as evidenced by publications and conference presentations (Level A) or; Strong track record of research achievements as evidenced by publications and conference presentations and demonstrated ability to win research funding (Level B).
4. Ability to teach effectively using evidence-based pedagogy that promotes student engagement (Level A) or; Demonstrated experience in curriculum development and the delivery of high-quality student-centered teaching using evidence-based pedagogy that promotes student engagement (Level B).
5. Ability to work effectively as part of a team and communicate clearly and effectively in English with both students and staff.
6. Ability to carry out administrative duties, as directed by the Head of School of Computer and Mathematical Sciences, effectively and efficiently.
7. Commitment to the principles of equity, diversity and inclusion, and ability to contribute to diversity of the Faculty of Sciences, Engineering and Technology community.

Closing dates

The closing date for all five applications is: **11.55pm on Sunday 28th January, 2024.**

Selection Criteria

Position 3: Qualifications / Experience

Level A/B Academic in Cyber Security and Digital Forensics

This position in cyber security and digital forensics offers a unique opportunity to join a stimulating research and teaching environment in the Faculty of Sciences, Engineering and Technology at The University of Adelaide, one of Australia's leading universities. We are seeking an enthusiastic colleague to work with us to expand our research and educational offerings in cyber security and digital forensics, and to make a significant contribution to both the Australian digital sciences and an emerging area of transdisciplinary environmental security.

The successful candidate will be appointed to a four-year 'fixed-term teaching (20% Teaching Load) and research' in collaboration with the School of Computer and Mathematical Sciences; alternatively, a three-year 'research only' position is available.

Essential Minimum Criteria

1. PhD in digital forensics, software engineering, cyber security, or an equivalent qualification.
2. Demonstrated research ability that supports applied research in digital surveillance related to A/Prof Cassey's ARC Industry Laureate Fellowship 'Combatting Wildlife Crime and Preventing Environmental Harm', particularly in active and passive network measurements, and/or experience with deep and dark web analysis.
3. Record of research achievements as evidenced by publications and conference presentations (Level A) or; Strong track record of research achievements as evidenced by publications and conference presentations and demonstrated ability to win research funding (Level B).
4. Ability to teach effectively using evidence-based pedagogy that promotes student engagement (Level A) or; Demonstrated experience in curriculum development and the delivery of high-quality student-centered teaching using evidence-based pedagogy that promotes student engagement (Level B).
5. Ability to work effectively as a team and communicate clearly and effectively in English with both students and staff.
6. Ability to carry out administrative duties, as directed by the Head of School of Computer and Mathematical Sciences, effectively and efficiently.
7. Commitment to the principles of equity, diversity and inclusion, and ability to contribute to diversity of the Faculty of Sciences, Engineering and Technology community.

Closing dates

The closing date for all five applications is: **11.55pm on Sunday 28th January, 2024.**

Selection Criteria

Position 4: Qualifications / Experience

Level A/B Academic in Conservation Biology

This position in Conservation Biology offers a unique opportunity to join a stimulating research and teaching environment in the Faculty of Sciences, Engineering and Technology at The University of Adelaide, one of Australia's leading universities. We are seeking an enthusiastic colleague to work with us to expand our research and educational offerings in conservation planning and decision making, and to make a significant contribution to both the Australian biological sciences and an emerging area of transdisciplinary environmental research.

The successful candidate will be appointed to a four-year 'fixed-term teaching (20% Teaching Load) and research' in collaboration with the School of Biological Sciences; alternatively, a three-year 'research only' position is available.

Essential Minimum Criteria

1. PhD in conservation science, environmental biology, applied spatial sciences, or an equivalent qualification.
2. Demonstrated research ability that supports applied research in environmental decision making related to A/Prof Cassey's ARC Industry Laureate Fellowship 'Combatting Wildlife Crime and Preventing Environmental Harm', particularly in conservation science and wildlife management.
3. Record of research achievements as evidenced by publications and conference presentations (Level A) or; Strong track record of research achievements as evidenced by publications and conference presentations and demonstrated ability to win research funding (Level B).
4. Ability to teach effectively using evidence-based pedagogy that promotes student engagement (Level A) or; Demonstrated experience in curriculum development and the delivery of high-quality student-centered teaching using evidence-based pedagogy that promotes student engagement (Level B).
5. Ability to work effectively as a team and communicate clearly and effectively in English with both students and staff.
6. Ability to carry out administrative duties, as directed by the Head of School of Biological Sciences, effectively and efficiently.
7. Commitment to the principles of equity, diversity and inclusion, and ability to contribute to diversity of the Faculty of Sciences, Engineering and Technology community.

Closing dates

The closing date for all five applications is: **11.55pm on Sunday 28th January, 2024.**

Selection Criteria

Position 5: Qualifications / Experience

Level A/B Post Doctoral Research Fellow in Wildlife Forensics

This position in wildlife forensic science (based at the Australian Centre for Wildlife Genomics, ACWG, in Sydney, Australia), offers a unique opportunity to join a stimulating research environment across two of Australia's leading scientific organisations; The University of Adelaide and the Australian Museum Research Institute (home of the ACWG).

We are seeking an enthusiastic colleague to work with us to expand our research program in DNA based wildlife forensic science, with a focus on new and emerging genomic technologies and the development and validation of methods which will make a significant contribution to the provision of wildlife forensic services in Australia and beyond.

The successful candidate will be appointed to a three-year fixed term research-intensive role between A/Prof Cassey's ARC Industry Laureate Fellowship ('Combatting Wildlife Crime and Preventing Environmental Harm), University of Adelaide and the ISO 17025 accredited Australian Centre for Wildlife Genomics at the Australian Museum Research Institute.

Please note the successful candidate will be expected to be primarily based at the ACWG in Sydney, Australia.

Essential Minimum Criteria

1. PhD in molecular ecology or forensic biology, or an equivalent qualification.
2. Demonstrated research ability (experimental design, laboratory work, data analysis and publication) that supports applied research in wildlife forensic science, particularly in zoology, population/conservation genetics, phylogenetics, or forensic biology.
3. Record of research achievements as evidenced by publications and conference presentations (Level A) or; Strong track record of research achievements as evidenced by publications and conference presentations and the ability to attract and supervise postgraduate students (Level B).
4. Ability to work effectively as part of a team and communicate clearly and effectively in English with both students and staff.
5. Demonstrated ability to win research funding in a competitive environment (Level B only).
6. Ability to carry out administrative duties, as directed by A/Prof Cassey and the Manager of the Australian Centre for Wildlife Genomics.
7. Commitment to the principles of equity, diversity and inclusion, and ability to contribute to diversity of the Faculty of Sciences, Engineering & Technology, and Australian Museum Research Institute communities.

Closing dates

The closing date for all five applications is: **11.55pm on Sunday 28th January, 2024.**

University Values

At the University of Adelaide, we are committed to fostering a culture where our values are at the heart of everything we do. They guide the decisions we make, the way we interact and what we stand for. Ours is a culture where we lift each other up, value diverse experiences and perspectives, and celebrate the energy, drive and enthusiasm of a workforce motivated to succeed.



Integrity

We hold ourselves and each other accountable to be honest and fair.



Respect

We embrace diversity and uphold the dignity of each individual.



Collegiality

We explore ideas collaboratively, and are united in our commitment to the University community.



Excellence

We deliver our best and celebrate outstanding performance.



Discovery

We are committed to learning and we boldly approach the future with curiosity and energy.

Living in South Australia

Adelaide has a bustling, energetic city centre and is renowned for its festivals, cultural life and sporting events. With great shopping, beaches, a cafe culture, affordable student accommodation and friendly residents, Adelaide offers a relaxed lifestyle with all the convenience of city living.



A truly liveable city

Safe and relaxed, Adelaide is ranked as one of the world's top 10 most liveable cities.



Australia's most affordable mainland city

Adelaide is one of the most affordable mainland Australian cities, with a cost of living up to 12% lower than Sydney and Melbourne.



Culturally diverse

South Australians hail from over 120 different countries, creating a wonderful mix of cultures and influences. One in five South Australians were born overseas!



The University of Adelaide

East End Entertainment Precinct

Rundle Malt

Parliament House

Adelaide Railway Station

Adelaide Health and Medical Sciences Building

Royal Adelaide Hospital

Adelaide Festival Centre

Adelaide Oval

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Kurna acknowledgement

We acknowledge and pay our respects to the Kurna people, the original custodians of the Adelaide Plains and the land on which the University of Adelaide's campuses at North Terrace, Waite, and Roseworthy are built. We acknowledge the deep feelings of attachment and relationship of the Kurna people to country and we respect and value their past, present and ongoing connection to the land and cultural beliefs. The University continues to develop respectful and reciprocal relationships with all Indigenous peoples in Australia, and with other Indigenous peoples throughout the world.