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Nine Aussie researchers are the planet's best.

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Nine Australian academic researchers are currently the best in the world in their field, ahead of all their competitors in the judgment of their peers.

Data assembled for The Australian's 2023 Research magazine by talent discovery and research analytics firm League of Scholars show that papers by each of the nine researchers (in the past five years) which were published in the top journals in their respective fields have attracted more citations than any other researchers in that field globally.

Two of the researchers - University of Queensland biologist Bhagirath Singh Chauhan and Deakin University education researcher David Boud - lead the world in two research fields.

Dr Chauhan leads in pest control and pesticides, as well as plant pathology, and Dr Boud leads in the two fields of education and higher education.

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Altogether Australian researchers are the world leaders in 11 of the 250 (just over 4 per cent) fields of research analysed in the Research magazine.

Other world leaders include Torrens University's Seyedali Mirjalili in artificial intelligence; Charles Sturt University's Sharynne McLeod in audiology, speech and language pathology; and the Burnet Institute's Caroline Homer in pregnancy and childbirth.

The data also reveal that Australian universities are the world-leading research institutions in 19 (nearly 8 per cent) of the 250 research fields.

UNSW leads in four fields - architecture, addiction, archaeology and international law.

The University of Queensland also leads in four fields - water supply and treatment; audiology, speech and language pathology; environmental sciences; and dispersion chemistry.

Monash University is the world leader in three fields - international business; rehabilitation therapy; and reproductive health - and the University of Melbourne is the world leader in two fields - software systems; and music and musicology.

Deakin University also leads in two fields - education; and higher education - the two areas in which Dr Boud is the world leader.

The areas in which Australian researchers and research institutions are global leaders are notable for their breadth across disciplines ranging from sciences, health sciences and information technology, through to the humanities and social sciences.

They also include professionally focused areas such as accounting and taxation (where Macquarie University is the world leader) and educational psychology and counselling (where the Australian Catholic University is the world leader in research).

Australian researchers who lead the world in their field

Bhagirath Singh Chauhan (University of Queensland) - Pest Control & Pesticides

Bhagirath Singh Chauhan (University of Queensland) - Plant Pathology

David Boud (Deakin University) - Education

David Boud (Deakin University) - Higher Education

Shaobin Wang (University of Adelaide) - Chemical Kinetics & Catalysis

Tuan Ngo (University of Melbourne) - Composite Materials

Seyedali Mirjalili (Torrens University) - Artificial Intelligence

Sharynne McLeod (Charles Sturt University) - Audiology, Speech & Language Pathology

Caroline Homer (Burnet Institute) - Pregnancy & Childbirth

Vedi Hadiz (University of Melbourne) - Asian Studies & History

Emery Schubert (UNSW) - Music & Musicology

Australian research institutions which lead the world in a research field

UNSW - Architecture

UNSW - Addiction

UNSW - Archaeology

UNSW - International Law

University of Queensland - Water Supply & Treatment

University of Queensland - Audiology, Speech & Language Pathology

University of Queensland - Environmental Sciences

University of Queensland - Dispersion Chemistry

Monash University - International Business

Monash University - Rehabilitation Therapy

Monash University - Reproductive Health

University of Melbourne - Software Systems

University of Melbourne - Music & Musicology

Deakin University - Education

Deakin University - Higher Education

Australian National University - Asian Studies & History

University of Sydney - Physical Education & Sports Medicine

Macquarie University - Accounting & Taxation

Australian Catholic University - Educational Psychology & Counselling

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