Lecturer in Geospatial Sciences and 3D Data Analysis

College/Division  College of Sciences and Engineering
School/Section  Geography, Planning, and Spatial Sciences
Location  Hobart
Classification  Academic Level B
Reporting line  Reports to Head of School

Position Summary

The University of Tasmania is building a vision of a place-based University with a mission to enhance the intellectual, economic, social, cultural, and environmental future of Tasmania, and from Tasmania, contribute to the world in areas of distinctive advantage. The University recognises that achieving this vision is dependent on the people we employ as well as creating a people-centred University that is values-based, relational, diverse, and development-focused.

We are seeking to appoint a Lecturer in Geospatial Sciences and 3D Data Analysis in the School of Geography, Planning, and Spatial Sciences which is part of the College of Sciences and Engineering.

In the School of Geography, Planning, and Spatial Sciences, we blend academic and applied multidisciplinary approaches to navigate the intersecting challenges of science and society. With our focus grounded in the sustainability of people and places, we bridge human and physical geography, spatial sciences, planning, and environmental management through our integrative research and teaching methodologies.

Our School houses Australia's top-rated 'Geomatic Engineering' research group. Our geospatial science research team makes significant contributions across a range of fields including biogeography, physical geography, geophysics, climate science, Antarctic studies, and oceanography. We are also highly dedicated to excellence in teaching future generations of geospatial scientists through our undergraduate and postgraduate courses, and research higher degree program.

The ongoing, full-time position of Lecturer in Geospatial Sciences and 3D Data Analysis balances teaching and research responsibilities with a service portfolio. The successful candidate will be responsible for developing and delivering cutting-edge learning materials in 3D data collection and analysis. Specialist knowledge of advanced geospatial techniques such as terrestrial, mobile, and airborne laser scanning, photogrammetry, computer vision, and related data analytics will be central to the work undertaken in this role. As a core academic member of our school, you will be invited to contribute to existing research projects and have the opportunity to develop new projects, particularly those focusing on the application of 3D geospatial data analysis.

We are looking for someone with practical experience in 3D data collection and the ability to teach students how to employ modern scanning technologies to analyse a variety of 3D environments. This role offers the exciting opportunity to conduct research in Tasmania's unique natural and built environments and to educate a new generation of geospatial scientists, equipping them with invaluable skills that are highly sought after in conservation, environmental management, and planning.

If your background involves applying 3D scanning technologies to natural or built environments, we strongly encourage you to apply. Today's local and global challenges require innovative thinking, novel tools, and sophisticated data analytics for improved mapping and monitoring of our environment. We are specifically looking for someone who thinks rigorously, is flexible and adaptable to change, trusts and respects others, resolves conflict positively, values and maintains honesty, integrity, and transparency, is a collaborator, and who strives to deliver exceptional results.
Join us and become part of a dynamic, enthusiastic, and friendly team of academics at the University of Tasmania, where we collaborate, inspire each other, and take pride in fostering an inclusive and supportive learning environment for our students and staff. If you are passionate about shaping the future of Geospatial Sciences and 3D Data Analysis, we would love to see your application for this exciting position!

Diversity & Inclusion

At the University of Tasmania, we are committed to cultivating an inclusive and diverse workplace that embraces the strength and richness that comes with diversity. This commitment is firmly grounded in our Statement of Values. We are devoted to attracting, retaining, and nurturing our people, and upholding inclusive principles.

We deeply value and respect the diversity and difference among our community. This includes individuals of diverse ethno-racial backgrounds, gender identities, sexual orientations, abilities, ages, and neurodiversity. Furthermore, we honour and acknowledge the unique strengths and insights that individuals with Aboriginal backgrounds and values bring to our community.

In addition to embracing different life experiences and courses, we are eager to ensure our community is representative of the wider society. As such, applications are strongly encouraged from all sectors of the community. We also understand that every individual's circumstance is unique. Therefore, we are open to discuss how we can adapt and make this role work for you. Join our dynamic team and help us in our continuous pursuit to create a genuinely inclusive academic environment.

Key Accountabilities

- Undertake high-quality, scholarly undergraduate and postgraduate coursework teaching.
- Develop new teaching materials (lectures, interactive teaching sessions, practicals, assignments, and field excursions) or update existing materials as required, including materials for online learning.
- Undertake high-quality research of national and increasingly of international standing. Secure external competitive and other research (or R&D) funding, publish research findings, and contribute to the successful supervision of research higher degree students.
- Contribute to the development and maintenance of productive and effective links inside the University and locally and nationally within the discipline, relevant interdisciplinary domains, the profession, industry and/or the wider community.
- Make an effective and sustained contribution to the University in achieving its strategic objectives and fulfilling its operational responsibilities.
- Undertake other duties as assigned by the supervisor.

Selection criteria

- A PhD or equivalent in the Spatial Sciences with demonstrated experience in 3D data collection and analysis.
- Demonstrated experience in real-world application of 3D data collection and analysis, in natural and/or urban environments.
- An emerging (for recent graduates) or established record of research that has achieved national or international recognition. A demonstrated record of leading or contributing to quality publications in 3D data collection and analysis, and presentations at conferences. Evidence of success in applying for research funding is desirable.
- Demonstrated ability to develop and deliver engaging, high-quality teaching materials in the field of geospatial data collection and analysis. Candidates should showcase their ability to enrich our course offerings, supported by concrete examples from their teaching or industry experience.
• Strong evidence of independent work leading to timely and significant outcomes, coupled with demonstrated effectiveness in team collaboration and building and maintaining productive relationships within the academic community, relevant industries, and professional networks.

Other position requirements

• Visiting and working in the field in remote locations
• Undertaking manual handling and lifting
• Knowledge of relevant Workplace Health and Safety requirements
• Driver’s licence
• Desirable - 4WD certification (training can be provided on appointment)
• Desirable - First aid certification (training can be provided on appointment)
• Desirable – Mental Health First Aid and/or Equal Employment Opportunity training (training can be provided on appointment)

University of Tasmania

The University of Tasmania is an institution with an enduring commitment to our state and community, and a strong global outlook. We are committed to enhancing the intellectual, economic, social and cultural future of Tasmania. Our Strategic Direction strongly reflects the University community’s voice that our institution must be place-based but globally connected and designed to deliver quality access to higher education for the whole State.

We believe that from our unique position here in Tasmania we can impact the world through the contributions of our staff, students and graduates. We recognise that achieving this vision is dependent on the people we employ, as well as creating a university that is values-based, relational, diverse, and development-focused.

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