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# VAAL UNIVERSITY OF TECHNOLOGY POSTDOCTORAL RESEARCH FELLOWSHIP APPLICATION FORM 2022

#### INSTRUCTIONS

- 1. The application form must be completed (typed) and signed by the Postdoctoral Fellow.
- In order to qualify for a Vaal University of Technology Postdoctoral fellowship, the following criteria will be considered during the selection process:
- Candidates must be available for FULL-TIME RESEARCH at the Vaal University of Technology.
- Candidates will be awarded a tenure of one year only that is renewable for a maximum of two years, subject to satisfactory performance and motivation from the respective <u>Principal Investigator (PII/Host.</u>
- The Fellowship is valued at a tax exempt 8300, 000.00 per annum (Three Hundred Thousand Rand), and there are no benefits attached to this remuneration.
- Candidates must have obtained their doctoral degrees within the LAST FIVE YEARS (2017 being the latest date of the degree being awarded).
- Fellowships are awarded on a competitive basis, taking the Applicant's academic achievements and a
  good motivation as researcher into account. Applicants are encouraged to ensure that a full list of their
  publications is included in the CV section of the application form.
- As the fellowship is primarily to enable the Postdoctoral Research Fellow (PDRF) to focus on research, the
  fellowship holder may NOT HOLD FULL-TIME SALARIED EMPLOYMENT concurrently with tenure of the
  fellowship, however he/she will be allowed to undertake a maximum of twelve hours per week of
  teaching related work.
- All awardees will be required to enter into a signed agreement with the Vaal University of Technology.
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- It is the responsibility of the P.I. to identify, screen, interview (with an interview panel) and select
  potential postdoctoral research fellows. Proof of the interview or screening method must be attached to
  the application form.
- Once this selection process has been completed, all completed documents must be submitted to the Research Directorate for necessary processing.
- Please note that there is little purpose in pursuing an application unless there is a dear commitment by a
  department to provide necessary facilities (office space, lab equipment etc.).
- Applicants may submit these documents via email to their potential <u>Principal Investigator (PII/Host or to Mr.</u>
   Mahlaule <u>Vulani</u>
- The Pi must submit completed forms with all the necessary documentation to Mr VC Mahlaule (vulanim@vut.ac.za) in both physical and electronic form.

# **Vaal University Admission Form 2015**

Siva Ramamoorthy,Inocencio Jr. Buot,Rajasekaran Chandrasekaran

#### **Vaal University Admission Form 2015:**

Additive Manufacturing: Materials, Processes, Quantifications and Applications Jing Zhang, Yeon-Gil Jung, 2018-05-17 Additive Manufacturing Materials Processes Quantifications and Applications is designed to explain the engineering aspects and physical principles of available AM technologies and their most relevant applications It begins with a review of the recent developments in this technology and then progresses to a discussion of the criteria needed to successfully select an AM technology for the embodiment of a particular design discussing material compatibility interfaces issues and strength requirements The book concludes with a review of the applications in various industries including bio energy aerospace and electronics This book will be a must read for those interested in a practical comprehensive introduction to additive manufacturing an area with tremendous potential for producing high value complex individually customized parts As 3D printing technology advances both in hardware and software together with reduced materials cost and complexity of creating 3D printed items these applications are quickly expanding into the mass market Includes a discussion of the historical development and physical principles of current AM technologies Exposes readers to the engineering principles for evaluating and quantifying AM technologies Explores the uses of Additive Manufacturing in various industries most notably aerospace medical energy and electronics Paper-based Diagnostics Kevin J. Land, 2018-12-11 This book explores the status of paper based diagnostic solutions or Microfluidics 2 0 The contributors explore how paper based tests can be widely distributed and utilized by semi skilled personnel how close to commercial applications the technology has become and what is still required to make paper based diagnostics the game changer it can be The technology is examined through the lens of the World Health Organization's ASSURED criteria for low resource countries Affordable Sensitive Specific User friendly Rapid and robust Equipment free and Deliverable to end users Its applications have to include health technology environmental technology food safety and more This book is appropriate for researchers in these areas as well as those interested in microfluidics and includes chapters dedicated to principles such as theory of flow and surface treatments components such as biomarkers and detection and current methods of manufacturing Discusses how paper based diagnostics can be used in developing countries by comparing current diagnostic tests with the World Health Organization's ASSURED criteria Examines how paper based diagnostics could be integrated with other technologies such as printed electronics and the Internet of Things Outlines how semi skilled personnel across a variety of fields can implement paper based diagnostics

Modified Nanomaterials for Environmental Applications Onoyivwe Monday Ama, Suprakas Sinha Ray, Peter Ogbemudia Osifo, 2021-11-16 This book focuses on the electrochemical and nanostructural properties of new photoanode electrolyte combinations used in the development of novel surface modified nanomaterials for environmental applications As water treatment is rapidly becoming a global challenge due to the increasing complexity and number of the various pollutants present the book explores fundamental issues relating to environmental applications of nanomaterials It addresses relevant

topics ranging from electrochemical synthesis and characterization to applications of photoanodes in corrosion prevention and biosensors for wastewater treatment Featuring up to date experimental results on nanomaterials for detection of pharmaceuticals and heavy metals in wastewater this contributed volume is useful to electrochemical researchers materials scientists and chemical and civil engineers interested in advanced photoelectrochemical research for environmental Enhanced Chitosan Material for Water Treatment Ephraim Igberase, Peter Ogbemudia Osifo, Tumisang Seodigeng, Ikenna Emeji, 2021-04-29 This book reviews some of the latest developments in the field of water treatment using multi functional chitosan based materials It covers the production of chitosan beads and membranes from chitosan powder as well as modification techniques for enhancing the material for commercial and industrial purposes The book summarizes the results of experimental adsorption desorption studies for elucidating the underlying reaction mechanism of heavy metal removal from wastewater presenting an advanced overview of an array of characterization techniques such as Fourier transform infrared spectroscopy thermogravimetric analysis x ray diffraction and scanning electron microscopy Additionally it features a look at the development and application of specialized engineering software and image analysis for modelling the kinetics of adsorption This book is ideal for scientists and engineers working in the broader field of environmental materials science It is all well suited for chemists as well as industrial and civil engineers interested in wastewater treatment and mitigation of water pollution **Deanship in the Global South** Oliver J.J. Seale, 2021-02-08 The university today is a postmodern neo liberal competitive boundary less knowledge conglomerate a far cry from its historical traditional classical and collegial roots There is a body of literature on deanship that points to its evolving nature in the contemporary academe characterised by complexity and change Balancing academic demands simultaneously with the requirements for effective performance leadership and management lies at the heart of this very challenging bridging role nowadays Deans are generally former academics emerging from a traditional collegial space and often catapulted into the relatively unknown domain of executive management with its related problems Deans nowadays are required to be more than collegial intellectual leaders They are also meant to be fiscal and human resource experts fundraisers politicians and diplomats Deanship in the Global South Bridging Troubled Waters is about the deans lived reality as they try to balance the demands of both the academe from which they emerge and the administration to whom they now need to account Their lack of preparation and inadequate support points to the need for a more strategic integrated approach to leadership development within their critical bridging roles between the academe and administration Corrupted Jonathan D Jansen, 2023-02-01 In South African higher education the images of dysfunction are everywhere Student protests Violence Police presence Rubber or real bullets Class disruptions Burning tyres Damaged buildings Injury and sometimes death Reports of wholesale corruption Year after year often in the same set of universities the problem of routine instability seems insoluble The financial academic and reputational costs of ongoing dysfunction are high especially for those universities caught up in the

never ending struggle to overcome apartheid legacies Any number of explanations have been ventured including a lack of resources shortage of capacity rural location corrupt officials and endemic conflict Corrupted takes a deeper look at dysfunction in an attempt to unravel the root causes in a sample of South African universities At the heart of the problem lies the vexed issue of resources or more pertinently the relationship between resources and power who gets what and why Whatever else it aspires to be commonly a place of teaching learning research and public duty a university in an impoverished community is also a rich concentration of resources around which corrupt staff students and those outside of campus all vie for access Taking a political economic approach Jonathan Jansen describes the daily struggle for institutional resources and offers accessible sensible insights He argues that the problem won t be solved through investments in capacity building alone because the combination of institutional capacity and institutional integrity contributes to serial instability in universities Rather durable solutions would include the depoliticisation of university councils and appointments of academics with integrity and capacity to manage and lead these fragile institutions This groundbreaking and long overdue study will offer a promising way forward for universities to better serve their communities and the country more broadly

Contextualised Critical Reflections on Academic Development Practices Teboho Pitso, 2021-04-20 This book offers insightful reflections on academic development practices. The contributors engage the reader painstakingly in the dynamics of professional learning and effective teaching This volume facilitates the examination of the need for reflection that leads to professional maturity All educational institutions seek teachers who continuously search for effective strategies in improving student success The contributors uncover a variety of approaches as they evince proven suggestions The chapters are refreshing and edifying This book is essential for all teachers lecturers and trainers who want to improve their teaching practice immensely Professor Vuyisile T Msila Researcher at the Thabo Mbeki African School of Public and International Quantitative Genetics, Genomics and Plant Breeding, 2nd Edition Manjit S. Affairs University of South Africa Kang, 2020-04-01 This book presents state of the art authoritative chapters on contemporary issues in the broad areas of quantitative genetics genomics and plant breeding Section 1 Chapters 2 to 12 emphasizes the application of genomics and genome and epigenome editing techniques in plant breeding bioinformatics quantitative trait loci mapping and the latest approaches of examining and exploiting genotype environment interactions Section 2 Chapters 13 to 20 represents the intersection of breeding genetics and genomics This section describes the use of cutting edge molecular breeding and quantitative genetics techniques in wheat rice maize root and tuber crops and pearl millet Overall the book focuses on using genomic information to help evaluate traits that can combat biotic abiotic stresses genome wide association mapping high throughput genotyping phenotyping biofortification use of big data orphan crops and gene editing techniques The examples featured are taken from across crop science research and cover a wide geographical base **Tourism and Hospitality for** Sustainable Development Emmanuel Ndhlovu, Kaitano Dube, Ngoni Courage Shereni, 2024-09-12 The tourism and

hospitality industry in the 21st century cannot be adequately planned executed marketed managed or studied without taking into account digital technology and its impact The Fourth Industrial Revolution provides the framework for sustainable development in this sector Technology not only increases profitability but also enables the industry to effectively respond to pressing global sustainability challenges such as pandemics climate change energy crises staffing shortages and hyperinflation Moreover technology allows the industry to consider its current and future economic social and environmental consequences addressing the needs of tourists the industry the environment and destinations However implementing technology efficiently and ethically is a complex process and the opportunities costs and challenges vary depending on the geopolitical and socio economic context The application of digitalisation and technological innovations have played a significant role in promoting universal design and reasonable accommodation for older adults and individuals with disabilities in both developed and developing countries These advancements are crucial for the growth of accessible tourism and hospitality This edited book aims to explore the trends challenges and complexities of integrating digitalisation and technology into the tourism and hospitality industry It also examines the strategic shifts that will shape future research in this area The book provides a comprehensive overview of the current state of research including theoretical insights empirical evidence and evidence based recommendations It covers a range of technologies such as blockchain robots artificial intelligence virtual reality big data and analytics The goal is to understand how these disruptive technologies are being used and their potential impact on various stakeholders as well as their future possibilities and limitations **Creation of the Boer Identity** Wiets Buys, 2024-02-19 The history of the Boer identity is an epic saga The Boer identity emerged in the isolation of an expansive landscape and evolved as a unique cultural entity deeply rooted in the principles of individualism localism independence and freedom The development of the Boer identity is an action packed tale of sacrifice suffering loss victory and resilience that shaped the Boer identity What sets The Creation of the Boer Identity apart is that it challenges the traditional perspective which has never focused on the creation and development of the Boer identity It is a comprehensive exploration of the formation of the Boer identity The book has been extensively researched and include information and insights not previously published in history books The book describes correspondence and public statements by key figures discussing specific events of that time adding a personal and historical dimension to the story It not only narrates the events but also provides factual insights behind them This work presents a fresh perspective on the history of the Boers from the viewpoint of the Boer identity DISCOVER THIS ASTOUNDING CHRONICLE AND WITNESS THE BIRTH OF A NATION THROUGH THE LENS OF ITS TRUE IDENTITY Critical Perspectives on Work-Integrated Learning in Higher Education Institutions Nirmala Dorasamy, Renitha Rampersad, 2018-11-30 Governments around the world are committed to enhancing students graduateness Work integrated learning WIL is one of the many programmes which Higher Education Institutions HEIs can develop to promote this facet of student life The incorporation of work integrated learning in

curriculum design and development can produce reciprocal benefits for students workplaces professions and communities Any curriculum design and development endeavour relating to WIL requires appropriate resources to support curriculum development This book serves to explore WIL programmes and experiences for the student WIL coordinator and supervisor It further integrates practical relevant and reflective industry experience within the higher education curriculum to enhance student development WIL has no uniformly or specific framework or approaches since it is an emerging field and is generally influenced by contextual factors In view of the diversity in theory and practice and different purposes whether pragmatic or practical driving the adoption of one approach over another this book highlight sthe diverse approaches that encapsulate Plant Genetic Resources, Inventory, Collection and Conservation Siva Ramamoorthy, Inocencio Jr. Buot, Rajasekaran Chandrasekaran, 2022-06-22 This edited book deals with plant genetic resources and their status availability and ecological niche in natural habitat Usage and conservation practices followed by various tribal communities and their rationale are also discussed in the book The book explores application of biological tools to conserve plant species and optimization protocols for conservation and elicitation of secondary metabolites and other value addition products The book is organized into sub themes covering i Ecological status of plant genetic resources ii Traditional ethnobotanical knowledge and conservation practices iii Ex situ conservation practices and bioprospecting Globally plant genetic resources are deeply rooted in culture and economy Since the early 1990s the changing socio economic situation has increasingly put pressure on plant genetic resources in some cases leading to a severe loss of their diversity For this reason most vulnerable areas at risk of genetic erosion have been demarcated and protected by forest laws and regulations Therefore this book brings to light the opinions of leading experts in the area of ecology conservation biodiversity ethanobotany and bioprospecting of plant genetic resources The book is for use by graduate and advanced undergraduate students and researchers in plant physiology molecular biology biochemistry and agriculture Additionally it is extremely useful as a general reference on conservation of flora and large scale cultivation Industry 4.0 - Shaping The Future of The Digital World Paulo Jorge da Silva Bartolo, Fernando Moreira da Silva, Shaden Jaradat, Helena Bartolo, 2020-10-28 The City of Manchester once the birthplace of the 1st Industrial Revolution is today a pioneering hub of the 4th Industrial Revolution Industry 4 0 offering Industry 4 0 solutions in advanced materials engineering healthcare and social sciences Indeed the creation of some of the city s greatest academic institutions was a direct outcome of the industrial revolution so it was something of a homecoming that the Sustainable Smart Manufacturing S2M Conference was hosted by The University of Manchester in 2019 The conference was jointly organised by The University of Manchester The University of Lisbon and The Polytechnic of Leiria the latter two bringing in a wealth of expertise in how Industry 4 0 manifests itself in the context of sustainably evolving deeply rooted cities S2M 2019 instigated the development of 61 papers selected for publication in this book on areas of Smart Manufacturing Additive Manufacturing and Virtual Prototyping Materials for Healthcare Applications

and Circular Economy Design Education and Urban Spaces Visual Cultures of Africa Mary Clare Kidenda, Lize Kriel, Ernst Wagner, 2022-04-06 The voices in this book offer a multi perspectival approach to Africa focusing on the skills and the knowledge underpinning visual cultural expressions ranging from Akan symbolism to embodied performances by dancers and storytellers even re designed models of Western cars Educators designers artists critics curators and custodians based both in Africa and in Europe are configuring spaces for public private institutional as well as digital conversation whether through pottery or portraiture furniture or film shoes or selfies buildings or books Readers are encouraged to question how African visual cultures are both in and of identifying and confrontational post and decolonial preserved and practised old and new borrowed and authentic composite and complete rooted and soaring Disciplines being engaged include visual culture studies media studies performance studies orature literature art and design as well as their histories The editors Mary Clare Kidenda Lize Kriel and Ernst Wagner represent three nodes in the Exploring Visual Cultures north south collaborative network The Technical University of Kenya the University of Pretoria in South Africa and Munich Academy of Fine Arts in Green Economy in the Transport Sector John Ogony Odiyo, Peter Bitta Bikam, James Chakwizira, 2021-12-08 This open access book is interdisciplinary and provides cross sectoral and multi dimensional exploration of sustainable development and transportation in South Africa Drawing on work from different disciplines the book contributes not only to academia but also seeks to inform urban and regional policy with the view of contributing to the national aspirations of South Africa as espoused in the National Development Plan NDP 2030 National Spatial Development Framework NSDF Draft 2019 National Climate Change Adaptation Strategy NCASS Draft 2019 Green Transport Strategy for South Africa 2018 2050 and National Transportation Plan NATMAP 2050 Adopting a multi dimensional assessment the book provides a background for co production concerning climate change sustainable development and transportation in the Global South The book contributes in its analysis of the institutional and legislative framework that relates to the climate change skills and knowledge transfer sustainable development and transportation in South Africa as these are responsible for the evolution of the green economy and transport sector in the country The connections among different sectors and issues such as environment transport modes technology innovation vehicle management and emission control skills and knowledge transfer legislative and policy framework and the wider objectives of the sustainable development goals SDGs especially goals 11 to 13 The success stories relating to climate change sustainable development and transportation in South Africa are identified together with the best possible practices that may inform better environmental urban and regional planning policy practice and management

<u>English-Medium Instruction from an English as a Lingua Franca Perspective</u> Kumiko Murata,2018-08-06 English is increasingly used as a lingua franca ELF in communicative situations the world over with the acceleration of globalisation. This is in line with the increased introduction of English medium instruction EMI to higher education institutions in many parts of the world to further promote both students and faculty s mobility to make them competitive and employable in the

globalised world and to make their institutions more attractive and reputable EMI and ELF however are rarely explicitly investigated together despite the fact that the spread of EMI cannot be separated from that of ELF This volume tackles the issue head on by focusing on EMI in higher education from an ELF perspective The volume includes contributions by Asian European Middle Eastern South American and Anglo American scholars It discusses language policies attitudes and identities analyses of classroom EMI practices case studies and finally pedagogical implications from an ELF perspective incorporating also theoretical and empirical issues in conducting EMI courses programmes The volume will be of great interest and use not only to those who are conducting research on ELF EMI CLIL language policy and related fields but also to classroom teachers and policy makers who are conducting and or planning to start EMI courses programmes in their institutions or countries all over the world Utilisation of South African Research on Higher Education Jan Botha ,Gabriele Vilyte, 2021-10-26 The relationship between research on the one hand and policy practice on the other hand is complicated and collaboration between scholars in research on higher education RHE and institutional research IR practitioners is often lacking This book marks a collaborative effort of a diverse range of South African RHE and IR scholars and asks the overarching questions What do we know about the utilisation of South African research on higher education SARHE and its subset of research known as Institutional Research How and by whom is this research used The book begins by looking at the historical underpinnings of SARHE and delineating the shape and size of this body of research This is followed by a series of case studies on South African Higher Education institutions and governmental bodies investigating how when and by whom are research on higher education and institutional research used in the decision making of these organisations This book is the first of its kind in South Africa and sets out to lay the groundwork for further research into the use uptake and utilisation of RHE and IR in this country Tourism Through Troubled Times Maximiliano E. Korstanje, Hugues Seraphin, Shem Wambugu Maingi, 2022-09-23 Tourism Through Troubled Times is an illuminating read for all scholars of Tourism Studies Hospitality Management and the Sociology of Tourism as well as practitioners and managers within the hospitality sector and gives clear insights into the industry's next steps forward *Proceedings of 9th Edition of* International Conference on BIOFUELS AND BIOENERGY 2018 EuroScicon, 2018-03-23 March 29 30 2018 Edinburgh Scotland Key Topics Biomass Biogas Bioenergy Renewable Energy Biorefineries Bioethanol Biodiesel Aviation Biofuels Advanced Biofuels Algal Biofuels Nanotechnology In Biofuels Food V S Fuel Debate Bioeconomy Energy And Environment Green Energy And Economy Advances In Renewable Chemicals Entrepreneurs Investment Meet Photography, Truth and Reconciliation Melissa Miles, 2020-08-05 Photography Truth and Reconciliation charts the connections between photography and a crucial issue in contemporary social history The book examines the prevalence of photography in cultural responses to processes of truth and reconciliation and argues that photographs are a valuable means through which stories can be retold and historiography can be rethought Five compelling case studies from Argentina Canada Australia South Africa and

Cambodia underscore the special role that this medium has played in facilitating processes of recovery and in reconstructing suppressed histories even when a documentary record of the events does not exist The diverse practices addressed in this book including artistic protest institutional archival legal and personal photography prompt a new consideration of photography s links to presence place time spectatorship and justice Collectively these practices attest to photography s key role in transitional justice and in shaping historical understanding internationally Important reading for students taking photography visual culture history and media studies courses Photography Truth and Reconciliation explores key historical and theoretical themes including photography and testimony international discourses on human rights and justice and problematic notions of public and collective memory The introduction and conclusion of this book are freely available as a downloadable Open Access PDF under a Creative Commons Attribution Non Commercial No Derivatives 4 0 license available at http www taylorfrancis com

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