

FACULTY OF ENGINEERING, BUILT ENVIRONMENT AND INFORMATION
TECHNOLOGY
in collaboration with the
FACULTY OF NATURAL AND AGRICULTURAL SCIENCES
ABSA CHAIR IN DATA SCIENCE: ASSOCIATE PROFESSOR / PROFESSOR (ONE POST)

(Scroll down for Afrikaans)

In pursuit of the ideals of excellence and diversity, the University of Pretoria wishes to invite applications for the following vacancy.

The University of Pretoria's commitment to quality makes us one of the top research Universities in the country and gives us a competitive advantage in international science and technology development.

The Chair in Data Science, sponsored by ABSA, solicits applications for the appointment of a professor or an associate professor to lead research in Big Data and Data Science at the University of Pretoria.

ABSA sponsors the role which is in line with its commitment to furthering Data Science research and in recognition of the importance of data in unlocking solutions in banking and other sectors in Africa.

The Departments of Statistics and Computer Science are, amongst others, participating in the UP Research Institute for Big Data and Data Science. The Institute's vision is to become a recognized world-class research, education and service delivery facility in Big Data and Data Science taking specific cognizance of the needs in South Africa, and the academic strengths of the University of Pretoria. The successful candidate will be expected to work in close relationship with the Institute.

The successful candidate can be appointed at either level, depending on his/her expertise and qualifications, in the Department of Computer Science.

RESPONSIBILITIES:

The successful candidate will be responsible for:

- Promoting, planning, organising and managing of research programmes in Big Data and Data Science;
- Fostering and supporting a multidisciplinary collaborative research effort across faculties and amongst faculty members focussing on various aspects of Big Data and Data Science that includes aspects such as machine learning, statistical learning and big data platforms;
- All financial activities including externally funded projects as well as attracting funding required for the data science-related research projects;
- Playing an active role as academic leader of Big Data and Data Science at a national and international level;
- Leading and promoting the Big Data and Data Science research initiative in terms of research outputs ranking and postgraduate students;
- Engaging in outstanding scholarly activities leading to national, regional and international recognition;
- Building a multi-stakeholder model for conducting research in Big Data and Data Science which includes strong representation from industry partners and government;

- Collaborating internationally with other scientific institutes to further the scientific agenda as well as forge international industrial partnerships.

MINIMUM REQUIREMENTS:

Associate Professor:

- A PhD in a closely related discipline to Big Data and Data Science e.g. Computer Science, Statistics, Computer Engineering and the like, is required;
- Excellent academic status in the relevant discipline;
- Expert knowledge in the multidisciplinary fields of data science;
- A proven research and publication record;
- National recognition as a researcher;
- Experience in the successful graduation of Master's and/or PhD candidates;
- Experience in undergraduate and/or postgraduate teaching;
- Expertise in software programming and data management across different platforms;
- Demonstrated skills and knowledge.

Professor:

- A PhD in a closely related discipline to Big Data and Data Science e.g. Computer Science, Statistics, Computer Engineering and the like, is required;
- Excellent academic status in the relevant discipline;
- A proven research and publication record;
- National and international recognition as a researcher;
- Experience in the successful graduation of PhD candidates;
- Experience in undergraduate and/or postgraduate teaching;
- Expertise in software programming and data management across different platforms;
- Demonstrated skills and knowledge;
- Proven record of fundraising for research and human capital development.

REQUIRED COMPETENCIES (SKILLS, KNOWLEDGE AND BEHAVIOURAL ATTRIBUTES):

- Strong leadership and communication skills.

ADDED ADVANTAGES AND PREFERENCES:

- An exceptional research record preferably in a Big Data and Data Science relevant discipline(s);
- A proven track record of international academic collaboration as well as experience with partnering with industry.

The annual remuneration package will be commensurate with the incumbent's level of appointment, as determined by UP policy guidelines. UP subscribes to the BESTMED medical aid scheme and contributes 50% of the applicable monthly premium.

Applicants are requested to apply online at www.up.ac.za, and follow the link: Careers@UP.

In applying for this post, please attach:

- Complete and updated Curriculum Vitae;

- A brief self-evaluation by the candidate;
- The candidate's vision for the Research Chair;
- A short teaching portfolio;
- Details of three contactable referees, including referees who can attest to the candidate's academic and/or leadership qualities.

Candidates may be expected to make a 15 minute presentation to the Appointments Committee on his/her vision for developing the Data Science initiative.

By applying, candidates agree to the appointment process as set out in the relevant UP policy document. This process can be accessed at <http://www.up.ac.za/services/personnel/policies/w113E.doc>.

CLOSING DATE: 30 November 2017

No application will be considered after the closing date, or if it does not comply with at least the minimum requirements.

ENQUIRIES: Prof Jan Eloff, Tel: (012) 420 6927

Should you not hear from the University of Pretoria by 31 December 2017, please accept that your application has been unsuccessful.

The University of Pretoria is committed to equality, employment equity and diversity.

In accordance with the Employment Equity Plan of the University and its Employment Equity goals and targets, preference may be given, but is not limited to candidates from under-represented designated groups.

All candidates who comply with the requirements for appointment are invited to apply.

The University of Pretoria reserves the right to not fill the advertised positions.

(Afrikaanse weergawe)

FAKULTEIT INGENIEURSWESE, BOU-OMGEWING EN INLIGTINGTEGNOLOGIE
in samewerking met die
FAKULTEIT NATUUR- EN LANDBOUWETENSKAPPE
ABSA LEERSTOEL IN DATAWETENSKAP: MEDEPROFESSOR / PROFESSOR (EEN
POS)

In ons strewe na uitnemendheid en diversiteit wag die Universiteit van Pretoria op aansoeke vir die volgende vakature.

Die Universiteit van Pretoria se verbintenis tot kwaliteit maak ons een van die vooraanstaande navorsingsuniversiteite in die land en gee ons 'n mededingende voordeel in internasionale wetenskap- en tegnologie-ontwikkeling.

Die leerstoel in Datawetenskap geborg deur ABSA versoek aansoeke vir die aanstelling van 'n professor of 'n medeprofessor om navorsing in Groot Data en Datawetenskap aan die Universiteit van Pretoria te lei.

ABSA borg die rol wat in lyn is met sy verbintenis tot die bevordering van Datawetenskaplike navorsing en ter erkenning van die belangrikheid van data in die ontsluiting van oplossings in bank- en ander sektore in Afrika.

Die Departemente Statistiek en Rekenaarwetenskap neem onder meer deel aan die UP Navorsingsinstituut vir Groot Data en Datawetenskap. Die Instituut se visie is om 'n erkende wêreldklas navorsings-, opvoedings- en dienslewingsfasiliteit in Groot Data en Datawetenskap te word, wat spesifiek kennis neem van die behoeftes in Suid-Afrika en die akademiese sterkpunte van die Universiteit van Pretoria. Daar word van die suksesvolle kandidaat verwag om in noue verhouding met die Instituut te werk.

Die suksesvolle kandidaat kan op enige vlak aangestel word, afhangend van sy/haar kundigheid en kwalifikasies, in die Departement Rekenaarwetenskap.

PLIGTE:

Die suksesvolle kandidaat sal verantwoordelik wees vir:

- Die bevordering, beplanning, organisering en bestuur van navorsingsprogramme in Groot Data en Datawetenskap;
- Die bevordering en ondersteuning van 'n multidisiplinêre samewerkende navorsingspoging oor fakulteite en onder fakulteitslede wat fokus op verskeie aspekte van Groot Data en Datawetenskap wat aspekte soos masjienleer, statistiese leer en groot dataplatforms insluit;
- Alle finansiële aktiwiteite, insluitend eksterne befondsde projekte, asook die befondsing wat benodig word vir die datawetenskapverwante navorsingsprojekte;
- Die speel van 'n aktiewe rol as akademiese leier van Groot Data en Datawetenskap op nasionale en internasionale vlak;
- Die leiding en bevordering van die Groot Data en Datawetenskap navorsingsinisiatief ten opsigte van navorsingsuitsette rang en nagraadse studente;
- Betrokkenheid in uitstaande wetenskaplike aktiwiteite wat tot nasionale, streeks- en internasionale erkenning lei;
- Die bou van 'n multi-belanghebbende model vir die uitvoer van navorsing in Groot Data en Datawetenskap wat sterk verteenwoordiging van bedryfsvennote en die regering insluit;
- Internasionale samewerking met ander wetenskaplike instellings om die wetenskaplike agenda te bevorder asook internasionale industriële vennootskappe te bewerkstellig.

MINIMUM VEREISTES:

Medeprofessor:

- PhD in 'n nou-verwante dissipline tot Groot Data en Datawetenskap, bv. Rekenaarwetenskap, Statistiek, Rekenaringenieurswese en dies meer word vereis;
- Uitnemende akademiese status in die toepaslike dissipline;
- Kundige kennis in die multidisiplinêre velde van datawetenskap;
- 'n Bewese navorsings- en publikasierekord;
- Nasionale erkenning as navorser;
- Ervaring in die suksesvolle gradueering van magister- en/of PhD-kandidate;
- Ervaring in voor- en/of nagraadse onderrig;

- Kundigheid in sagtewareprogrammering en databestuur oor verskillende platforms;
- Bewese vaardighede en kennis.

Professor:

- PhD in 'n nou-verwante dissipline tot Groot Data en Datawetenskap, bv. Rekenaarwetenskap, Statistiek, Rekenaaringenieurswese en dies meer word vereis;
- Uitnemende akademiese status in die toepaslike dissipline;
- 'n Bewese navorsings- en publikasierekord;
- Nasionale en internasionale erkenning as navorser;
- Ervaring in die suksesvolle gradueering van PhD-kandidate;
- Ervaring in voor- en/of nagraadse onderrig;
- Kundigheid in sagtewareprogrammering en databestuur oor verskillende platforms;
- Bewese vaardighede en kennis;
- Bewese rekord van fondswerwing vir navorsing en ontwikkeling van mensekapitaal.

VEREISTE BEVOEGDHEDE (VAARDIGHEDE, KENNIS EN GEDRAGSEIENSKAPPE):

- Sterk leierskap- en kommunikasievaardighede.

BYKOMENDE VOORDELE EN VOORKEURE:

- 'n Uitnemende navorsingsrekord, verkieslik in 'n toepaslike dissipline van 'n Groot Data en Datawetenskap;
- 'n Bewese rekord van internasionale akademiese samewerking asook ervaring met vennootskap met die bedryf.

Die jaarlikse vergoedingspakket vir hierdie pos sal in ooreenstemming met die suksesvolle kandidaat se vlak van aanstelling wees, volgens UP-beleid en -riglyne. UP onderskryf die BESTMED mediese skema en dra 50% van die toepaslike maandelikse paaient by.

Aansoekers word versoek om elektronies aansoek te doen by www.up.ac.za, en volg die skakel: Careers@UP.

Om aansoek te doen vir hierdie pos, heg asseblief aan:

- 'n Volledige, bygewerkte Curriculum Vitae;
- 'n Kort selfevaluering deur die kandidaat;
- Die kandidaat se visie vir die Navorsingsleerstoel;
- 'n Kort onderrigportefeulje;
- Besonderhede van drie kontakbare referente, insluitend referente wat kan getuig van die kandidaat se akademiese en/of leierseienskappe.

Daar mag van kandidate verwag word om 'n 15 minute aanbieding aan die Aanstellingskomitee oor sy/haar visie vir die ontwikkeling van die Datawetenskapinisiatief te lewer.

Deur aansoek te doen, stem kandidate in tot die aanstellingsprosedure soos vervat in die relevante UP beleidsdokument. Toegang tot die aanstellingsprosedure word by <http://www.up.ac.za/services/personnel/policies/w113E.doc> verkry.

SLUITINGSDATUM: 30 November 2017

Geen aansoek sal oorweeg word as dit na die sluitingsdatum ontvang word nie, of as dit nie ten minste aan die minimum posvereistes voldoen nie.

NAVRAE: Prof Jan Eloff, Tel: (012) 420 6927

Indien daar nie teen 31 Desember 2017 met u in verbinding getree is nie, aanvaar asseblief dat u aansoek onsuksesvol was.

Die Universiteit van Pretoria is verbind tot gelykheid, diensbillikheid en diversiteit.

Volgens die Universiteit van Pretoria se diensbillikheidsplan, -doelwitte en –teikens, mag voorkeur verleen word aan kandidate uit voorheenbenadeelde groepe, maar word nie noodwendig daartoe beperk nie.

Alle kandidate wat aan die aanstellingsvereistes voldoen, word uitgenooi om aansoek te doen.

Die Universiteit van Pretoria behou die reg voor om nie die geadverteerde poste te vul nie.