



Combating Climate Change
Improving Livelihoods

CALL FOR APPLICATIONS TO MASTER RESEARCH PROGRAMME IN INFORMATICS FOR CLIMATE CHANGE 2020/2021 ACADEMIC YEAR

(FULL SCHOLARSHIP AVAILABLE)

The **UNIVERSITE JOSEPH KI-ZERBO, Ouagadougou, Burkina Faso**, is pleased to announce for application for its second batch of students to the study of Master Research Programme in Informatics for Climate Change (MRP-INFORMCC) in Burkina Faso under the Capacity Building Programme of West African Science Service Centre on Climate Change and Adapted Land Use (WASCAL), with funding from the German Ministry of Education and Research (BMBF).

WASCAL is a wholly West African international organization with focus on academic and transdisciplinary research, building graduate-level scientific capacity and serving policy makers in West Africa with science-based advice on adaptation to climate change impacts and land use management. It cooperates with many agencies and universities in the region, providing a knowledge platform of excellence for its partners. WASCAL is funded by BMBF, multilateral and bilateral partners and its 11 West African member countries, namely: Benin, Burkina Faso, Cabo Verde, Cote d'Ivoire, Ghana, Gambia, Mali, Niger, Nigeria, Senegal and Togo.

WASCAL mission is to provide information and knowledge services at the local, national and regional levels to West African member countries to cope with the adverse impacts of climate change. We do this through capacity building support to young West African scholars in fields of climate, natural and social sciences and by delivering climate and environmental services in member countries.

PROGRAMME OFFERED: MASTER RESEARCH PROGRAMME INFORMATICS FOR CLIMATE CHANGE (MRP-INFORMCC)

The Master Research Programme in Informatics for Climate Change (MRP-INFORMCC) is implemented at the Université Joseph KI-ZERBO (Burkina Faso) in partnership with the

University of Würzburg (Germany). MRP-INFORMCC is aimed at training a critical mass of experts with adequate scientific computation and climate data management skills in West Africa. This Master programme include all aspect of data management and administration of high performance computing facility that will be used to run regional climate models and its auxiliaries for operational and research institutions and universities in West Africa. Student will be exposed to interdisciplinary and trans-disciplinary approaches to climate data analysis and management skills as well as operations and maintenance of HPC systems. Upon completion of their study, the students are expected to acquire adequate knowledge in:

- climate and environmental data storage and management,
- climate data analysis techniques and provision of climate data service,
- the operation, installation and maintenance of the HPC,
- current licensed climate data analysis software/packages,
- the use of open sources climate data analysis packages.

These skills offer several opportunities for graduates. They can pursue doctoral studies or undertake professional careers in meteorological agencies, research centers, universities, public administration, private sector, NGOs, International Institutions etc.

PROGRAMME DURATION

The time frame for the Master programme is two years. During the first-year students participate in the course programme of their Master Research Programme and work on their research outline. Research will be conducted during the second year within a period of six to nine months. Students would be expected to complete their thesis and internships with relevant government ministries, the national meteorological/hydrological agencies or relevant industry during the last three to six months of their study.

The 24 months full time programme has the following components:

- i) Preparatory phase: Four months (04) of Language proficiency courses in English Language for francophones and lusophones at the University of Cape Coast in Ghana; and French language for anglophones, at the University of Lome in Togo;
- ii) Lectures– 14 months - 3 semesters at the Université Joseph KI-ZERBO (UJKZ);
- iii) Research Proposal preparation – concurrent with (ii) above;
- iv) Internship/Field/Research Work/ – 4 months. Students are expected to select topics that are in line with the research agenda, mission and objectives of WASCAL;
- v) Final Thesis write-up and defence – 2 months.

SCHOLARSHIP AND RESEARCH SUPPORT

WASCAL will grant scholarships to selected students (eleven) under the “WASCAL Graduate Studies Program”. The scholarship is extended annually upon successful completion of study program.

The scholarship includes:

- monthly stipend to cover accommodation, and living expenses for the period of studies;
- payment of university fees;
- research budget;
- a personal laptop computer on loan for the duration of the program.

ELIGIBILITY

Candidates applying for Master Research Programme in Informatics for Climate Change (MRP-INFORMCC) must have a minimum BSc degree (second class upper division) or equivalent in Social, Physical and Natural Sciences and Engineering (Computer Science, Physics, Meteorology and Climate science, Geography, Geoscience, Economics, Agriculture, Mathematics, Statistics, Computer Engineering, Electrical or Electronic Engineering).

Other general requirements include:

1. Citizen of WASCAL member country.
2. Five credits including Mathematics and English Language that are also equivalent to Francophone university grading system.
3. Gender-balanced selection decision.
4. Proficiency in English Language.

APPLICATION PROCESS AND REQUIREMENTS

The application process is handled jointly by WASCAL and The Université Joseph KI-ZERBO. Applications are to be submitted online.

(a) All applicants are required to download and fill the application form on www.wascal.org/ www.univ-ouaga.bf

(b) The following documents are required for the application with the corresponding names of the files:

Num	Document required	File name
1	Filled application form	appl-form
2	Copy of academic degree (B.Sc or equivalent) ^(*)	degree
3	B.Sc Official Transcript or equivalent ^(*)	Transcript (1, 2, 3...)
4	Detailed Curriculum Vitae	CV
5	WASSCE or SSCE Certificate (Anglophone Countries)	WASSCE or SSCE
6	Baccalaureat Certificate(Francophone countries)	BAC
7	Letter of motivation	Letter-Motiv

Num	Document required	File name
8	Letter from the Head of Department in the University where the applicant obtained his/her First Degree with detailed contact address and phone number (s)	Letter-HD
9	Support letter from employer (if employed) granting study leave for the two (2) year duration of the programme	Letter-employer
10	Copy of Certificate of Nationality or State of Origin	CN
11	A copy of English proficiency test or, in alternative, a statement indicating and justifying your self-assessment in the context of English proficiency.	English
12	Research pre-proposal or description of research interest (max. 2 pages)	Proposal
13	Recommendation letters from two (02) referees, one of whom must be his/her First-Degree supervisor. If employed, the second letter must come from the immediate supervisor/boss in his/her work. The letters must contain detailed functional contact addresses (e-mail, skype and postal etc) and telephone numbers of the referees	Recom 1; Recom2

(*) **official English translations if the originals are not in English (for Lusophones)**

- ⇒ **All applicants are required to submit the completed application form (complete with all attachments in (b) above) by email addressed to: ed-icc@univ-ouaga.bf copy to : mrp.informcc@gmail.com; capacitybp@wascal.org**
- ⇒ **Partially completed forms will be discarded**
- ⇒ **Each document must be attached individually and as a single document**

DEADLINE:

All applications must be received by **June 5, 2020**. Shortlisted candidates (two per country) will be contacted and invited for interviews.

Others informations are available on-line at www.wascal.org

The Director

Prof. Tanga Pierre ZOUNGRANA



Combating Climate Change
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Masters Programme in Informatics for Climate Change

Eligible Countries: Benin, Burkina Faso, Cape-Verde, Côte d'Ivoire, Gambia, Ghana, Mali, Niger, Nigeria, Sénégal, and Togo

**Recent
Passport
Photograph**

Application Form

**Master Research Program in Informatics for Climate Change
Université Joseph KI-ZERBO, Ouagadougou**

1. Personal data

Last Name (Family):
.....

First Name(s):
.....

Gender: Female Male

Date and Place of Birth (dd/mm/yy):
.....

Nationality:
.....

Marital Status: Number and Age of Children:
.....

Country of Residence: Permanent Home Address (compulsory; preferably with street name and house number)
.....
.....
.....

Telephone Numbers (compulsory):

.....

Primary Email Address (compulsory):

.....

Skype Address (compulsory)

.....

Name of Contact Person (for emergencies) Name:

.....

GSM number(s):

.....

Email / Skype address:

.....

2. Secondary/Post Primary Education and Certificates Obtained (e.g. WASSCE, SSCE, Baccalaureate or equivalent).

Secondary/Post Primary School attended	Period of Attendance in Years	Title and Grade of Certificate obtained	Date Qualification was obtained

Details of Secondary/High School Result e.g. WASSCE, SSCE, Others (for Anglophone Countries only)

The candidate must have, at least, five credits in relevant “O” level Science subjects (e.g. Physics, Mathematics, Geography, Economics, Chemistry and Biology or Agricultural Sciences) including English Language in not more than two sittings.

Examination Type (WASSCE or SSCE):		
Subject	Grade	Year of Examination

Details of notes report { Relevés de Notes Baccalaureat d'enseignement secondaire} (For Francophone Countries Only)

Only candidates with Baccalaureat C, D, H, F1, F2, F3, E or equivalent are suitable for consideration.

Épreuves	Notes sur 20	Coeff	Points Obtenus
Total			
Moyenne générale			
Décision du jury			
Mention			

3. University Education

Universities Attended	Year of Attendance	Qualification Obtained	Date of Qualification Obtained Title of Degree Awarded and Grade

Candidates must have a minimum BSc degree (second class upper division) or equivalent in Social, Physical and Natural Sciences and Engineering (Computer Science, Physics, Meteorology and Climate Science, Geography, Geoscience, Economics, Agriculture, Mathematics, Statistics, Computer Engineering, Electrical or Electronic Engineering).

Beginner									
Working knowledge									
Advanced									

6. Employment record

Name and Address of two previous employers (Please start with your most recent employment)	Dates of Employment	Position held

7. Letter of motivation

Personal statement should include the student's academic and personal qualities as well as his/her interests in research in the area of *Informatics for Climate Change*.

8. Application supporting documents

(All relevant documents must be sent for the applicant to be considered for admission)

- ✓ Filled application form
- ✓ Copy of academic degree (B.Sc or equivalent)
- ✓ B.Sc Official Transcript or equivalent
- ✓ Detailed Curriculum Vitae
- ✓ WASSCE or SSCE Certificate (Anglophone Countries)
- ✓ Baccalaureat Certificate(Francophone countries)
- ✓ Letter of motivation
- ✓ Letter from the Head of Department in the University where the applicant obtained his/her First Degree with detailed contact address and phone number (s)
- ✓ Support letter from employer (if employed) granting study leave for the two (2) year duration of the programme
- ✓ Copy of Certificate of Nationality or State of Origin
- ✓ A copy of English proficiency test or, in alternative, a statement indicating and justifying your self-assessment in the context of English proficiency.
- ✓ Research pre-proposal or description of research interest (max. 2 pages)
- ✓ Recommendation letters from two (02) referees, one of whom must be his/her First-Degree supervisor. If employed, the second letter must come from the immediate supervisor/boss in his/her work. The letters must contain detailed functional contact addresses (e-mail, skype and postal etc) and telephone numbers of the referees

Female candidates are encouraged to apply.

All Required Documents are to be scanned into Pdf submitted along with the application to the following addresses : capacitybp@wascal.org ; ed-icc@univ-ouaga.bf; mrp.informccc@gmail.com

I confirm to the best of my knowledge that the information given in this form is true.

Date:...../...../ 2020

Signature:

APPLICATION DEADLINE : JUNE 5, 2020

- Application is on line. Applicants are to download, fill the forms and send it on-line by email to ed-icc@univ-ouaga.bf and copy mrp.informccc@gmail.com ; capacitybp@wascal.org
- ALL necessary credentials MUST be submitted as pdf files along with the filled application forms (each document must be attached individually as a single file)
- Ineligible or incomplete application forms WILL NOT be processed
- ONLY successful applicants will be contacted