



EXPRESSION OF INTEREST

INSTRUCTOR(S) FOR AGENT-BASED MODELING OF EDUCATIONAL AND SOCIAL SYSTEMS WORKSHOP (PHYSICAL)

African Economic Research Consortium (AERC), which was established in 1988, is one of the most active Research and Capacity Building Institutions (RCBIs) in the world, with a focus on sub-Saharan Africa. The Consortium's mission is to strengthen local capacity for conducting independent, rigorous inquiry into the problems facing the management of economies in sub-Saharan Africa. The mission and objectives of AERC are achieved through a long-standing collaborative and networking framework of its research and training programmes, supported by an interactive communications and outreach programme and backed by a comprehensive management and administration component.

AERC's Collaborative research programme addresses topical policy issues of pertinence to policy making in Africa and brings together senior African and international researchers to generate a range of framework papers and country case studies, which are disseminated through AERC's senior policy seminars and national policy workshops. The research programme responds to special needs of the Sub-Saharan African region through a flexible approach that improves the technical skills of local researchers, allows for regional determination of research priorities, strengthens national institutions concerned with economic policy research, and facilitates closer ties between researchers and policy makers.

The call for expression of interest

As part of the AERC capacity building activities under the *BMGF Building Policy Research Institutions to Support Human Capital* collaborative research project, AERC is planning to hold a three-day training workshop on Agent-Based Modeling of Educational and Social Systems from **October 17 - 19, 2022**. The technical workshop takes about 3 working days during which the participants learn theory and practice related to contents of the course using some econometric software to estimate and interpret the results and make presentations to the rest of the participants. This is therefore a call for expression of interest by qualified instructors to offer the course. Participants in this workshop are researchers and technical personnel from the following seven (7) Sub-Saharan African countries: *Nigeria, Ethiopia, Kenya, Uganda, Burkina Faso, Senegal, and Madagascar*.

Terms of reference

The terms of reference for the instructor include the following tasks:

- Preparation of the workshop agenda and technical prospectus to be used in the workshop-to be shared with AERC prior to the workshop
- Identification of relevant materials, documentations and software for use during the workshop
- Train all researchers on Agent-Based Modeling of Educational and Social Systems. The aim is to equip researchers with analytical skills, tools and software in order to develop research capability to be able to carry out research and policy analysis/development using the tools learnt.
- Lead the discussions and provide the participants with extensive exposure to a selected number of useful topics and issues in course which include are not limited to Agent-Based Modeling of Educational and Social Systems.
- Prepare a report on the proceedings of the workshop -to be shared with AERC at the end of the training.
- Perform any other activities as mutually agreed upon between instructor and AERC.



Selection Criteria

Selection of the instructor(s) will be based on the following criteria.

- At least a master's in economics or related field. Having a PhD degree will be an added advantage.
- Published in refereed/peer reviewed outlets (Journal Articles, Books and Book Chapters)
- Experience in teaching at least at graduate degree level
- Experience in offering similar courses
- Practical knowledge in collecting and using time series, panel and/or survey data
- Proficiency in use of econometric software (e.g. STATA, R, EVIEWS etc.)
- A brief outline of what will be covered in the course to accompany the application
- Good command in English and/or French

Additional information

1. Number of participants - about 30.
2. The participants will use their own computers.
3. The full set of materials prepared for the course will be put on a flash disk/drop box for participants to access.
4. Photocopying facilities on site are not available but can be done at the hotel business center (likely to be very expensive).
5. Daily sessions start from 9:00AM to about 5:00PM (GMT+3) with lunch break of about one hour and two tea/coffee breaks of about 30 minutes each. This information should help in devising an appropriate break down and the components of the course for each day.
6. The instructor will provide all the practice datasets for uniformity.
7. PowerPoint projectors and white board/flipcharts.
8. Course will be undertaken at a venue to be identified in **Kenya**.

We would like to invite you to send your expression of interest to offer this course to AERC current researchers under the collaborative project on Human Capital Development in Africa. To express your interest in offering this course, **kindly send your CV and a brief course outline to procurement@aercafrica.org and copy collaborative.research@aercafrica.org and dmuchai@aercafrica.org**. The CV should not be more than 6 pages and should clearly indicate all the information relevant to this call. The biographical section of the CV must include the researcher's nationality, gender, and full contact details. Your expression of interest will be evaluated by the AERC procurement unit, and we will let you know the outcome in a period of two weeks after the deadline. The subject of your email should read **"INSTRUCTOR AGENT BASED MODELING OF EDUCATIONAL AND SOCIAL SYSTEMS"**.

Qualified women are encouraged to apply.

AERC will offer a moderate honorarium for the services provided during that period including the time required for preparation of the course and mentoring the researchers. If selected, AERC will provide an air ticket to and from the venue of the workshop; accommodation; per diem, visa fee and other expenses as will be specified in the agreement letter.

If you are interested, kindly respond by August 30, 2022.