

ANNOUNCEMENT: 5-month graduate student fellowship opportunity for UChicago graduate students at the African Institute for Mathematical Sciences (AIMS) in South Africa, Senegal, Ghana, Cameroon, Tanzania or Rwanda during the 2016 – 2017, 2017 – 2018, or 2018-2019 academic years.

The UChicago-AIMS faculty working group announces **an opportunity for University of Chicago graduate students to serve as preceptors, or tutors**, for the AIMS Master's Program in Mathematical Sciences. The fellowship spans a period of a minimum of 5 months, but may be extended up to 10 months. Tutors will assist with courses that are taught by faculty in three-week modules, and which span a variety of topics in **mathematical sciences (e.g. physics, statistics, financial mathematics, computer science, informatics or related fields)**. Applicants should be enrolled in a PhD program and pursuing research in a field that uses mathematical or scientific methods. Applicants should also possess strong pedagogical and interpersonal skills.

Serving as a tutor for AIMS presents an intensive and exhilarating opportunity for UChicago graduate students. They will be able to work closely with internationally renowned faculty and interact with top-notch students from around the African continent. Faculty and graduate students who have participated in this program describe it as transformative: they credit it with invigorating their research agendas and enriching their pedagogical skills and commitments.

The tutor's responsibilities include:

- Attending classes and supporting faculty
- Leading tutorials that complement faculty-led lectures and discussions
- Assisting students in the design, research, and writing of capstone essays
- Work with AIMS staff to help manage IT, logistics, and administration of the center

Teaching is conducted in English (at AIMS Senegal courses may also be taught in French). Knowledge of another language (e.g. Arabic, Amharic, French, Wolof, etc.) may be useful. The fellowship will pay each tutor a monthly stipend of the equivalent of \$1,000.00. Tutors will live on-site. The AIMS centers provide a private room as well as board; each center also offers 24-hour access to computers, internet, and library resources. Travel expenses to and from AIMS Centers from UChicago, as well as medical insurance for the duration of the stay, will be covered.

Prospective tutors are advised to **submit a cover letter, a 2-page CV and two references to Prof. Paul Wiegmann** of the UChicago-AIMS faculty working group at p-wiegmann@uchicago.edu by **February 25** for tutoring opportunities starting the following fall or winter.

University of Chicago graduate students interested in learning more about this opportunity are asked to contact Kasia Batorski at the Global Engagement Office at kbatorski@uchicago.edu or 773-702-5088.

The UChicago-AIMS partnership

In July 2015, the University of Chicago and the African Institute for Mathematical Sciences (AIMS) signed a partnership to bring UChicago faculty members and scientists from Argonne National Laboratory to AIMS Centers. The partnership encourages UChicago faculty to collaborate with AIMS faculty in the development of new curriculum and experimental program content, and to explore joint research projects and future academic collaborations. The program is also designed to help UChicago faculty identify prospective students to UChicago graduate programs.

About AIMS

- AIMS-Next Einstein Initiative is a pan-African network that offers outstanding training in the mathematical sciences to African students. Its goal is to advance critical inquiry and creative thinking, and to develop well-rounded scientists who can contribute to expanding scientific knowledge and applications across the African continent and around the world.
- AIMS institutes are extremely selective and all students are provided with full scholarships, which include travel, room and board. Graduates of AIMS have gone on to pursue graduate degrees in various fields in the United States and Europe. AIMS is currently located in five countries: [South Africa](#), [Ghana](#), [Cameroon](#), [Senegal](#), [Tanzania](#). Another AIMS Center is planned to open in Rwanda in 2016. For more information, see <http://www.nexteinstein.org/>.

About the Students

- Student cohorts are selected by an international selection committee that make a rigorous assessment of academic achievement and promise, as well as taking into account the language, gender, subject major, and nationality of each applicant.
- Students accepted for the program hold, as a minimum, a four-year Bachelor's or corresponding degree in mathematics or any science or engineering subject with a substantial mathematics component.
- The small group setting and the residential nature of the AIMS program creates an intense learning environment that is supported by graduate student preceptors, high-quality computers, internet, and library resources.

About the Faculty

- Every year, approximately 25 faculty from leading local and international universities, including Nobel laureates and Fields medalists, volunteer to teach at each AIMS center, providing students with the latest knowledge in their own respective fields.
- Faculty members teach a three-week course at AIMS in a topic selected for the Master's program and helps students connect with the global scientific and mathematical community.

- AIMS Lecturers work with graduate student tutors who provide general assistance with the academic program, including preparation of materials and group and personal tutorials.

About the Tutors

- Faculty members and Master's students are supported by advanced doctoral student preceptors, or tutors, who attend assigned classes, give tutorials, offer supplemental lectures, and work individually and in groups with students.