



The Department of Mathematical Sciences in the College of Science at George Mason University invites highly qualified undergraduates to apply to join the **Mason Experimental Geometry Lab (MEGL)** for Fall 2016.

Responsibilities:

Duties include working with Virtual Reality, 3D Printing, Super Computers, and Experimental Pure Mathematics (in collaborative teams). Additionally, interns will help with Grassroots Community Engagement. Interns will meet with teams weekly to advance projects, give presentations, create and document exploratory computer programs, and document results.

Research will go towards the National Science Foundation (NSF) grant NSF-DMS1500966, and Simons Foundation grant 245642.

Position are from September 15 to December 1. There is the possibility for renewal into the Spring semester. All positions will be located in the Department of Mathematical Sciences (L106 in EXPL Hall).

Qualifications:

The ideal candidate is a math major who is comfortable learning programming, has done well in proof based mathematics courses, and is *excited* about pure mathematics. However, all interested applicants should apply. GPA and appropriate course work will factor into decisions, as well as past experience.

Positions:

1. Research in Algebra and Combinatorics: 2 paid internships available (10 hours/week at \$10/hour)
2. Research in Number Theory and Dynamics: 1 work-study position available.
3. Development in Virtual Reality and Hyperbolic Geometry: 1 work-study position available.
4. Lab and Programming Assistant: 1 work-study position available.

Special Instructions to Applicants:

Interested parties should send a formal letter of interest, and an unofficial transcripts to the MEGL directors: Dr. Lawton (slawton3@gmu.edu) and Dr. Manon (cmanon@gmu.edu). Letters of recommendation may be solicited for finalists. Applications are due by 8/26/16, but applications will be accepted until positions are filled.