



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 2017.

**Responsibilities:**

Duties include working in teams to explore mathematics collaboratively. Additionally, interns will help with community engagement in math. Interns will meet with teams weekly to advance projects. Most projects involve writing computer programs to explore mathematics. Projects will conclude with a final presentation and report.

Positions are from September 4 to December 15. There is the possibility for renewal into the Spring. All positions will be located in the Department of Mathematical Sciences (L106 in EXPL Hall). Research interns will need to register for Math 491 (1-3 credits).

**Qualifications:**

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

**Projects/Positions (see individual fliers for more details):**

1. Visualizing Continued Fractions: 2-3 internships available, supervised by Dr. Lukyanenko
2. Erdős-Szekeres Problem in 3D: 2-3 internships available, supervised by Dr. Soltan
3. Exploring Geometric Flows: 2-3 internships available, supervised by Dr. Berry
4. Arithmetic Dynamics: 2-3 internships available, supervised by Dr. Lawton
5. Math Outreach: 1 paid position available (\$10/hour), supervised by Dr. Lawton

**Special Instructions to Applicants:**

Interested parties should send a formal letter of interest, and an unofficial transcript to the MEGL director: Dr. Lawton ([slawton3@gmu.edu](mailto:slawton3@gmu.edu)). Letters of recommendation may be solicited for finalists. Applications are accepted on a rolling basis, but positions will be filled starting immediately.

Project fliers available at: <http://meglab.wikidot.com/opportunities>