



## Open Position

### **Programmer/Analyst – Mathematical Reviews**

Information Technology Department – Ann Arbor, MI

Applications are invited for a full-time position as a Programmer/Analyst for Mathematical Reviews/MathSciNet. The Mathematical Reviews (MR) founded in 1940, is a division of the American Mathematical Society (AMS), located in Ann Arbor, Michigan, in a beautiful, historic building close to the campus of the University of Michigan. MR is an association of professional mathematicians dedicated to the interests of mathematical research and scholarship. MR has a staff of over 75 and serves researchers and scholars in the mathematical sciences by providing timely information on peer-reviewed articles and books, published online as MathSciNet. MR's mission is to develop and maintain the MR Database, from which MathSciNet is produced.

This position is primarily responsible for analyzing, designing, coding, documenting and maintaining web-based applications and related back-end services. Working closely with the department manager, the programmer analyst provides technical expertise to diagnose problems and to research, recommend, and implement solutions. This individual will have experience designing and developing applications across the entire stack, including the front-end, domain logic, and data tiers.

#### **The position involves:**

- Collaborating with the IT team to develop and maintain internal web-based applications;
- Performing all functions in the software development life cycle (specification, analysis, design, coding, testing, maintenance, support, and documentation);
- Designing, running and monitoring software performance tests for the purposes of correcting errors, isolating areas for improvement, and general debugging;
- Participate in defining web-based application architecture;
- Adhering to department and industry standards in which code and documentation should be written;
- Working both independently and in a team-oriented, collaborative environment.

**Requirements for the position include:** Proficiency in Scala, HTML/CSS/JavaScript, and SQL. Understanding of object oriented principles and design patterns. Practical experience with functional programming, and designing concurrent and distributed systems using Akka. Experience with testing, including unit testing, mocks, and test driven development; building web services (REST, JSON, XML, etc.); using source code control (e.g., Git, Subversion); full text databases such as Elasticsearch; using source code control (e.g., Git, Subversion). Continuous Integration (e.g. Jenkins, Hudson). Strong background in web development. Unix/Linux including use of SSH and basic shell scripting.

**Education and/or experience:** A minimum of a bachelor's degree or equivalent in computer science and 3 or more years of experience as a full-time programmer required.

The AMS offers excellent benefits, including competitive salaries, health and dental; very generous retirement contributions and paid leave; paid life insurance; a casual, collegial work environment; tuition assistance; computing benefit; as well as professional development opportunities. Salary is commensurate with experience. We are an Equal Opportunity/Affirmative Action Employer.

There is no relocation assistance provided for this position.

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