

us: Applied Mathematician [PhD in appl math or related field, MSc with 5y exp; understanding of linear algebra, numerical methods, vector calculus, familiarity with CAD tools; MATLAB a plus, exp Linux/Unix, parallel progr preferred; apply math methods in support of eng problems] / BerrieHill Research Corporation; Dayton, OH / U.S. Citizen and ability to obtain security clearance

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BerrieHill Research Corporation

Title: Applied Mathematician I (Full Time Position)

Synopsis: Under the supervision of a senior mathematician, apply mathematical methods in support of engineering problems.

Clearance: Ability to obtain a security clearance

Location: Dayton, OH

Job Description:

- Apply computational and CAD tools to analyze electromagnetic problems, including scattering and radiation. Anticipated computational methods cover the areas of variational methods, linear algebra, vector calculus, partial differential equations, optimization, serial and parallel programming.
- Reconstructing surfaces/solids of a polygonal model using a variety of CAD tools.
- Interact with engineers to understand, formulate, and test solutions for a variety of scientific and engineering problems. This includes interacting with engineers who model antennas, radomes, and feed structures for use within computational electromagnetic simulations.
- Work under the general supervision of a senior Ph.D. mathematician.
- Assist in preparing technical reports, proposals, and white papers. Specifically, (i) provide figures of geometry and other illustrations for visual aids, (ii) provide plots of numerical results, (iii) collect and organize data for deliverables, (iv) contribute ideas.
- Prepare technical presentations and interact with customers at technical exchange meetings.

Technical Skills:

- A solid understanding of linear algebra, numerical methods, and vector calculus is essential.
- Having some familiarity with CAD tools (e.g.: Rhino 3D, Pro/ENGINEER, Catia, Hyper Mesh, AutoCAD, Patran) is important.
- Familiarity with MATLAB is a plus.
- A strong desire to understand unfamiliar technical material, and a willingness to learn and apply unfamiliar software tools or simulations is critical for success in this position.
- Experience with Linux/Unix and parallel programming preferred.

Interpersonal Skills:

- The candidate should have an ability to work and communicate well with co-workers, be a team player, be self motivated, capable of multi-tasking, and able to work according to a schedule (e.g. deadlines, proposals, etc.).
 - The candidate should be a creative thinker with a positive “can do” attitude, as well as quick learner who is not afraid to ask questions.
- Education:

- Minimum educational requirements are a PhD degree in applied mathematics or related field or a Masters degree in applied mathematics or related field with five years experience.

Clearance:

- Must be a U.S. Citizen and able to obtain a security clearance.

Please contact mjburns@berriehill.com to apply.

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