



**Position Description: Staff Mechanical Engineer, MS or PhD**

**Location: Portland, OR Hiring: Immediate**

We are looking for a mechanical engineer with the passion and drive to create world-class FEA simulations of complex structures and systems

**Predictive Engineering:** Our clients turn to us to solve their most difficult simulation challenges. We have a nationwide reputation for providing state-of-the-art analyses across broad industrial sectors from medical, aerospace, marine, automotive, chemical, mining, and general consumer products. If you strive to be the best in your field, this is the place for you.

**Requirements:**

- +3 years as full-time simulation engineer
- MS or PhD with an emphasis in solid mechanics
- Keen understanding of FEA theory and practice
- Graduate work in mechanics (i.e., dynamics, composites, elasticity, continuum mechanics, plates and shells, etc.)
- Demonstrative communication skills via engineering reports, presentations or sales activities
- Competitive personality as demonstrated by scholastic and/or sports activities
- US Citizenship

**Ideal Candidate:** Advanced degree in solid mechanics. Comfortable writing high-quality engineering prose for proposals and reports. Our project work is constantly changing, and you should be comfortable with independently researching solutions and developing analysis checks to verify your assumptions.

Here is a list of traits that would ensure success in this position:

- Inquisitive and engaging – never shy about asking questions and capable to self-start and self-solve
- Dedicated to getting the right answer even if it involves all-night slogs through research papers, books and dense numerical formulas
- Ability to quickly learn new analysis techniques from linear dynamics (e.g., PSD) to composites to fluid structure interaction (CFD/SPH/DEM/ALE)
- Wants to be part of a team that is setting the bar for state-of-the-art finite element analysis solutions

**Staff Position Description:**

- Ability to manage small projects (<\$50k) in an entrepreneurial manner. This implies: (i) in-depth examination of the project's goals and deliverables with full client involvement, (ii) execution of the analysis work with attention to detail and modeling efficiency, (iii) exceeding the client's expectations for delivery and quality, (iv) maintaining a follow-on relationship to ensure that the project work was correctly implemented and had a successful outcome, and (v) you take intense pride in your work.
- On-site engineering work (outside of Portland) is expected to be no more than five weeks a year.
- A keen sense of artistic balance in report and document preparation.

**Salary:** \$80 to \$110k

**How to Apply:** Send us a brief cover letter with your current resume. We would also appreciate seeing an example of your engineering work in graphical format. Please be kind to us and keep your submittal as brief as possible. One can send their submittal electronically via our website email link under About Us/Careers:

<http://www.predictiveengineering.com/Solutions/about/careers.html>

**Predictive Engineering, Inc.** is an equal opportunity employer. We promote bike commuting and advocate healthy lifestyles with group activities from skiing, mountain biking, water sports, boot-camp and consumption of social beverages. Predictive offers a 401k pension plan with a matching contribution and health care benefits.