

## Plasma Computational Scientist

### Industry R&D and Technical Leadership Role

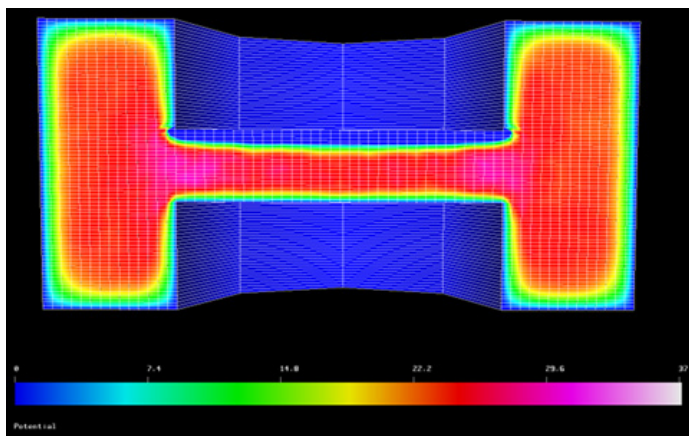
Greater Denver, Colorado | EMA (45 years established) | Charge Plus distributed by Ansys/ Synopsys | \$8.4M annual revenue, growing 58% year-over-year

#### Why This Role

EMA develops physics-based engineering software used across aerospace, semiconductor manufacturing, and advanced industrial plasma applications. Charge Plus is rapidly gaining adoption and is distributed globally by Ansys and Synopsys. This position offers technical leadership while remaining deeply engaged in hands-on plasma modeling.

#### What You Will Do

- Develop electrostatic and electromagnetic PIC-based plasma models
- Drive numerical rigor: grid convergence, stability analysis, and parameter studies
- Post-process large datasets to extract key physical quantities
- Write clear technical reports documenting assumptions and validation
- Mentor teammates and contribute to modeling standards



Example: Potential field from an EMA Charge Plus plasma simulation model.

#### Required Qualifications

- Ph.D. (or M.S. with equivalent experience) in Physics, Plasma Physics, Applied Mathematics, Electrical Engineering, or related field
- Strong background in plasma theory, especially low-temperature plasmas
- Demonstrated experience performing plasma simulations
- Strong numerical methods, data analysis, and visualization skills

#### Preferred Experience

- Plasma chemistry and plasma-material interactions
- PIC methods and hybrid PIC-fluid approaches
- Verification and validation (V&V) studies
- Technical leadership experience

#### How to Apply

Interested in joining our team? Apply today through the [Career Opportunities](#) tab at [ema3d.com](http://ema3d.com).